Panasonic
ideas for life

DOMESTIC // HEATING AND COOLING SYSTEMS 2011

EVERY ROOM MATTERS

ETHEREA

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'ECO IDEAS' FOR LIFESTYLES: WE WILL PROMOTE LIFESTYLES WITH VIRTUALLY ZERO CO_2 EMISSIONS THROUGHOUT THE WORLD. SPECIFICALLY:

- 30% of total sales will be achieved through "eco labeled" products. This includes both external labels such as EU eco flower, Blue Angel or Nordic Swan, and our internal 'eco ideas' label, which is given to products which achieve industry-leading environmental performance. [1]
- 3,500,000t of contribution in reducing CO_2 emissions with energy solution products (such as Solar Panels, Fuel Cells, Heat Pumps, Energy Recovering Ventilation, LED and Energy Saving Lamps). [2]
- Educate 100,000 children on eco related topics through the 'kids school – eco learning' programme.

'ECO IDEAS' FOR BUSINESS-STYLES: WE WILL CREATE AND PURSUE BUSINESS-STYLES THAT MAKE THE BEST USE OF RESOURCES AND ENERGY:

- 99% of waste materials generated in European production will be recycled [3], meaning less than 1% will be allowed to go to landfill.
- 1,000t of reduction in CO_2 emissions from Panasonic's offices across Europe. [4]
- 7,000t of contribution in reducing CO_2 emissions from production activities. [5]

1) Products awarded the 'eco ideas' label include those whose environmental performance is greater than the industry's No.2 model by 10% or more at the time of release, and those which achieve the highest rank in the market by external environmental labels in accordance to environmental performance.
2) An amount of CO_2 reduction compared to the estimated figure assuming no improvement. Measures were taken after March 31, 2006.
3) Includes all Panasonic Group's European factories with the exception of IPS-Alpha and Sanyo
4) Based on offices with 100 employees or more; based on FY 2009.
5) An amount of CO_2 reduction compared to the estimated figure assuming no improvement. Measures were taken after March 31, 2006.

PANASONIC HEATING AND COOLING SYSTEMS

With more than 30 years of experience, exporting to more than 120 countries around the world, Panasonic is unquestionably one of the leaders in the air conditioning sector. The company is also a world leader in innovation as it has filed more than 95,025 patents to improve its customers' lives. Moreover, Panasonic is determined to remain at the forefront of its market – thanks to more than 500 researchers working in European laboratories to design increasingly innovative products. In all, the company has produced more than 100 million compressors and its products are manufactured in 294 plants which are located all over the world. You can be assured of the extremely high quality of Panasonic's air conditioners.

This wish to excel has made Panasonic the international leader in heating and air conditioning solutions. The company's industrial capacity and firm commitment to the environment has enabled it to open new avenues of research and to develop innovative technologies which enhance its customers' way of life.

Panasonic offers a range of turnkey heating and air conditioning solutions for homes, medium-sized buildings such as offices and restaurants, and large-scale buildings. These offer maximum effectiveness, comply with the strictest environmental standards and meet the most avant-garde construction requirements of our time.

At Panasonic we know what a great responsibility it is to install heating and cooling systems. Because offering you the best solutions in heating and cooling matters.

EVERYTHING MATTERS

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Panasonic
ideas for life

eco ideas

PANASONIC ECOLOGY & ENERGY VISION

A STEP AHEAD IN ECOLOGY — IN HOMES, BUILDINGS AND TOWNS

Panasonic presents a more comfortable and ecological lifestyle. By linking a wide range of products for saving, creating and storing energy with Energy Management Systems, it is possible to control energy use in a smart way.
Panasonic aims to contribute towards reducing CO_2 emissions in the entire house and building.
Our steadfast commitment to the environment means that all of our air conditioners meet the most demanding requirements for energy consumption and noise emissions. But it also means that we search for new ideas to improve our environment, both in meticulous control of the processes of manufacturing and distributing our products and in new ways of living our day-to-day lives without endangering the planet's future.

WELCOME TO NEW DOMESTIC RANGE

More than ever before, Panasonic has developed a range of products designed for you and your clients.

The main new feature in the Domestic line is, without doubt, the Etherea range with the new ECONAVI system, which detect the level of human presence in a room and their level of activity and adjusts output accordingly. With its innovative design, high efficiency and incomparable purification system, the range has been designed with your clients in mind. Above all, it is also a range for air conditioning professionals, such as yourself, thanks to its broad range of products which are capable of conditioning rooms of all sizes – always with optimal efficiency and incomparable ease of installation. The Etherea range guarantees that you are offering your clients the very best.

ETHEREA

designed to care for you

ECONAVI

dual sensor

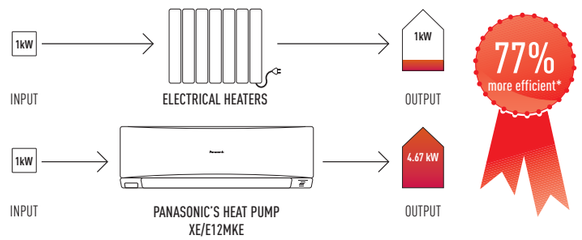
THE NEW ETHEREA RANGE PURE EFFICIENCY WITH ECONAVI

Panasonic's new Etherea units offer maximum efficiency in every sense. They ensure minimum consumption, thanks to the new ECONAVI system, which intuits the level of human presence in a room and their level of activity and adjusts output accordingly. This feature provides up to 40% energy savings on heating mode, and up to 30% energy savings on cooling mode.

Our super silent air conditioners guarantee the purest air to take care of you and your family. They boast sophisticated features, such as the E-ion plus purification system, designed to eliminate harmful micro-organisms, viruses, bacteria and moulds and a system which prevents humidity in the room from dropping too far. Thanks to Mild Dry System.

ECONOMICAL, ENVIRONMENT-FRIENDLY OPERATION HIGH COP (COEFFICIENCY OF PERFORMANCE)

Original Panasonic Inverter technology and a high-performance compressor provide top-class operating efficiency. This lets you enjoy lower electricity bills while contributing to environmental protection.



*On heating mode, XE/E12MKE compared with electrical heaters at +7°C

healthyair

quality air control 24 h — PATROL SENSOR
The Patrol Sensor is on guard 24 hours a day to ensure optimal air quality.

pure air system — e-ION PLUS
The E-ion+ system eliminates 99% of bacteria, viruses and mildew from the air.

perfect humidity control — MILD DRY
The Perfect Humidity Air controls the humidity level in the air to prevent over-dryness.

energysaving

A class energy saving — INVERTER+
The A Inverter system provides energy savings of up to 50%. You win and nature wins.

30% savings — ECONAVI
ECONAVI sensor determine the human activity level adjust the air flow orientation for maximum comfort and maximum savings.

improved comfort — AUTOCOMFORT
The Autocomfort system detects conditions in the room and switches to energy saving operation when nobody is on the room.

silent air 20 dB — SUPER QUIET
With Super Quiet technology our devices are as quiet as a library.

ECONAVI

NEW ECONAVI SYSTEM

ECO INTELLIGENCE BY DESIGN

Going green and saving energy shouldn't compromise on your comfortable lifestyle. That is why the inverter – with its exceptional energy-saving performances – has been introduced to our air conditioners.

At the same time, individuals also get to enjoy the Advanced+Plus e-ion Air Purifying System with the Patrol Sensor for cleaner air. Both advanced features have been designed to improve quality of life. With the same concerns in mind, Panasonic is introducing a new Econavi concept – an intelligent eco function with automatic detection which further reduces energy waste.
This enables individuals to save energy easily and thus improve the environment. Imagine what millions of people around the world can change with Econavi. A more sustainable future is possible.

NEW 2011

INTRODUCING ECONAVI – A SYSTEM WHICH SAVES ENERGY BY REDUCING WASTE

The ECONAVI concept applies high precision Human Sensor and Control Program technologies to optimise air conditioner operation according to room conditions. How does it save energy? By using technology to detect areas in which energy is normally wasted and self-adjusting cooling power. Thus, it helps you to save energy efficiently with uninterrupted cooling, comfort and convenience.

UP TO 30% ENERGY SAVINGS ON COOLING MODE*, 40% ENERGY SAVINGS ON HEATING MODE**

30% savings ECONAVI

Accumulative energy consumption is saved up to 40% during stable operation for 1 hour.

***Energy saving effect for cooling by ECONAVI dual sensor: 30%**

Test condition
Comparison of 1.5HP Inverter model between with ECONAVI dual sensor ON and OFF ECONAVI dual sensor ON Outside temperature: 35˚C/24˚C Remote setting temperature: 25˚C with Fan Speed (High) /Vertical Airflow direction: Auto, Horizontal Airflow direction: ECONAVI Mode Setting temperature goes up 1˚C controlled by ECONAVI activity level ECONAVI dual sensor OFF Outside temperature :35˚C/24˚C Remote setting temperature:25˚C with Fan Speed (High) / Vertical Airflow direction: Auto, Horizontal Airflow direction: Front Total power consumption amount are measured for 1 hour in stable condition. At Panasonic Amenity Room (size:16.2M2) This is the maximum energy saving value, and the effect differs according to conditions in installation and usage.

****Energy saving effect for heating by ECONAVI dual sensor: 40%**

Test condition
Comparison of 1.5HP Inverter model between with ECONAVI dual sensor ON and OFF ECONAVI dual sensor ON Outside temperature: 7˚C/6˚C Remote setting temperature: 23˚C with Fan Speed (High) /Vertical Airflow direction: Auto, Horizontal Airflow direction: ECONAVI Mode Setting temperature goes down 2˚C controlled by ECONAVI activity level ECONAVI dual sensor OFF Outside temperature: 7˚C/6˚C Remote setting temperature: 23˚C with Fan Speed (High) / Vertical Airflow direction: Auto, Horizontal Airflow direction: Front Total power consumption amount are measured for 1 hour in stable condition. At Panasonic Amenity Room (size:16.2M2) This is the maximum energy saving value, and the effect differs according to conditions in installation and usage.

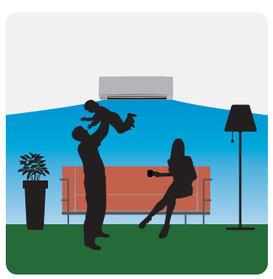
One-touch ECONAVI reduces waste in three simple steps:

It examines
- Levels of activity
- Human presence

It assesses
- Changes in human location
- Changes in human activity
- Changes in human presence

and executes
- Adjusts airflow direction
- High activity: automatic adjustment of the set temperature
- Absence: saves energy

• Adjusts airflow direction



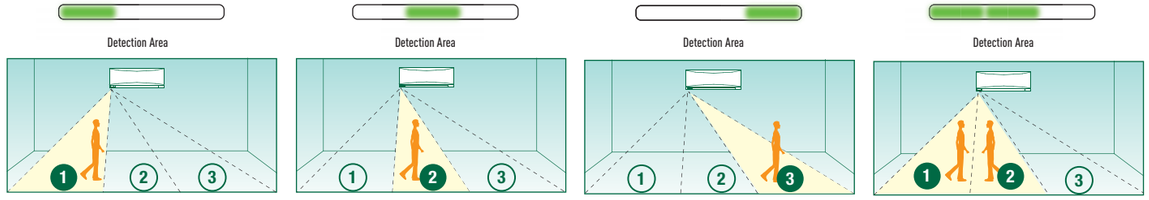
• High activity: automatic adjustment of the set temperature

• Absence: save energy

SENSOR DETECTION PRINCIPLE

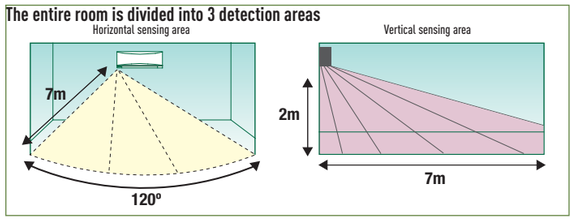
Dual human activity sensor detects human activity level and directs airflow to occupied or high activity zone.

LEDs Operation Indication Status



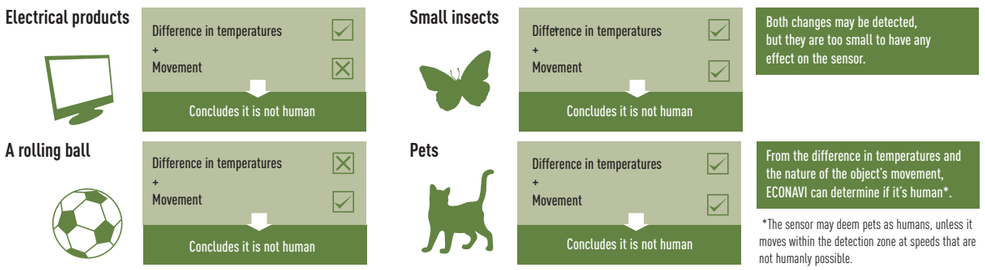
COVERAGE CAPABILITIES

ECONAVI dual sensor covers a wider area due to its improved area detection function.



DIFFERENTIATING OBJECTS

ECONAVI's sensor technology uses factors such as speed, frequency and temperature of every object to determine if it is human.

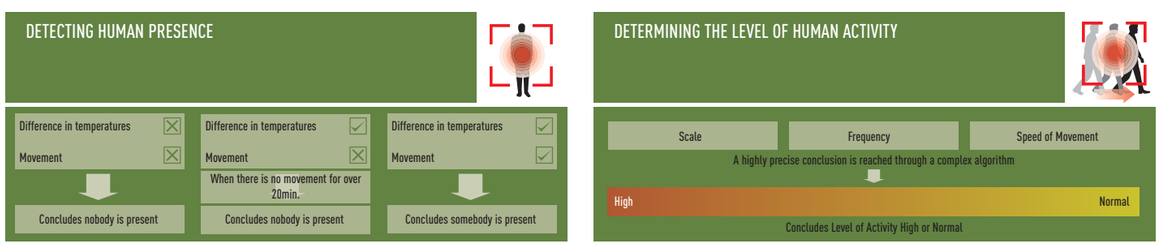


*The sensor may deem pets as humans, unless it moves within the detection zone at speeds that are not humanly possible.

HIGH-PRECISION SENSING

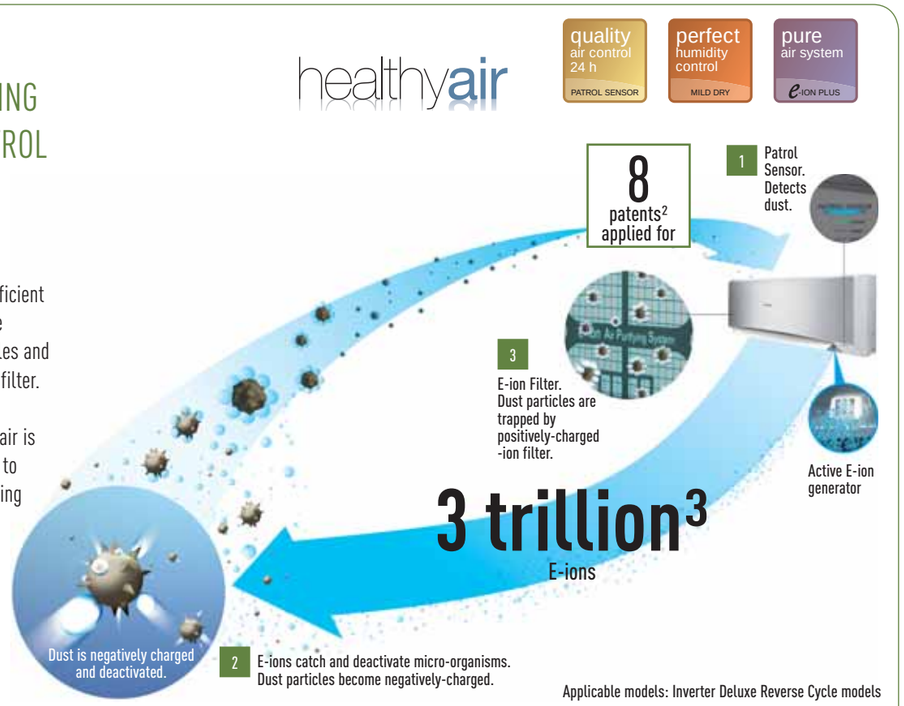
All objects emit infrared rays which, although invisible, can be detected as heat by ECONAVI's sensor if it is within the detection zone. When an object moves within its detection zone, ECONAVI compares the object's temperature with the room temperature to determine if it is human, and level of activity based on its movement.

The entire room is divided into 3 detection areas



ADVANCED+PLUS. E-ION AIR PURIFYING SYSTEM WITH PATROL SENSOR

Panasonic's original, highly acclaimed e-ion Air Purifying System is now 15%[1] more efficient than before. Active e-ions are released to catch dust particles and bring them back to the large filter. Thanks to this revolutionary boomerang-like mechanism, air is purified throughout the room to provide a healthy, relaxing living environment.


healthyair
quality air control 24 h PATROL SENSOR
perfect humidity control MILD DRY
pure air system e-ION PLUS
8 patents[2] applied for
1 Patrol Sensor. Detects dust.
3 E-ion Filter. Dust particles are trapped by positively-charged -ion filter.
Active E-ion generator
3 trillion[3] E-ions
Dust is negatively charged and deactivated.
2 E-ions catch and deactivate micro-organisms. Dust particles become negatively-charged.

Applicable models: Inverter Deluxe Reverse Cycle models

1. Compared to 2007 year's models.
2. Panasonic has applied for 8 patents related to e-ion Air Purifying technology. (As of May, 2010)
3. 3 trillion is the simulated number of active e-ions under the mentioned conditions. Actual measured active e-ions at the centre of the room (13 m²):100k/cc Calculated number of active e-ions in the entire room assuming they are evenly distributed.

This is Panasonic's revolutionary mechanism

Air is monitored both during air conditioner operation and when it's switched off. When dirt is detected, the air purifying function is started to immediately clean the air in the room.

1

DETECTS

Patrol Sensor

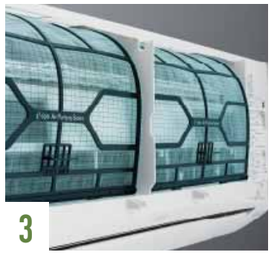
The sensor measures the dirt in the air, and above a certain level the air is judged to be dirty.
If dirt concentration exceeds the sensing level, the Air Purifying System is switched on.

2

CATCHES & INACTIVATES

E-Ion Action

Three trillion e-ions are released to catch floating dust particles. The ions also deactivate bacteria and viruses.

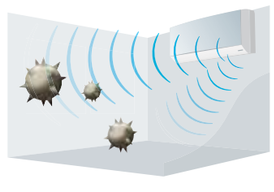


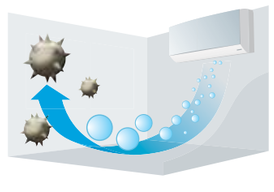
3

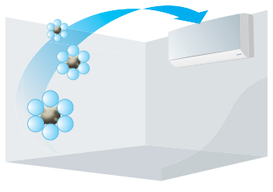
CAPTURES ELECTRICALLY

E-Ion filter

The filter is positively-charged, so negatively-charged dust particles are electrically attracted. This electrical action assures that dust is efficiently captured.







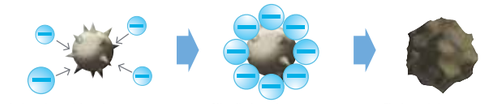
Active E-ion

- Active e-ions can deactivate bacteria and virus activities.
- E-ions Air Purifying System can rapidly reduce airborne mould and bacteria[1)]

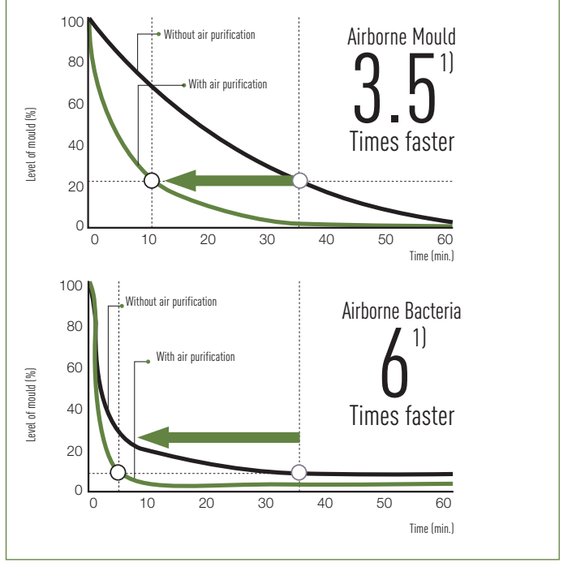
Deactivation was certified by Japan Food Research Laboratories
- Test report number: No. 10057764001-02
  Bacteria: Staphylococcus aureus subsp. aureus (NBRC12732)
- Test report number: No. 10057770001-02
  Bacteria: Escherichia coli (NBRC3972)
- Test report number: No. 204101750-001
  Virus: Influenza virus A
- Test report number: No. 304110078-001

1) Test method: The e-ion Air Purifying System was operated in a test room (10m³) and changes in airborne mould and bacteria were measured by means of the Air Sampler Method (MAS100)

DEACTIVATING MECHANISM

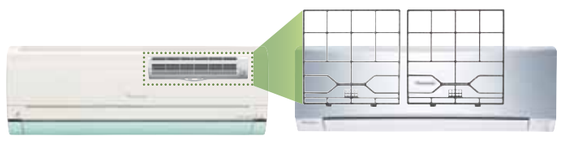

Active e-ions stick to the surface of the bacteria.
The same applies to viruses
OH radicals work on the cell wall.
The bacteria is deactivated.
Target substances
Bacteria
Viruses

REMOVAL PERFORMANCE



E-ion Filter

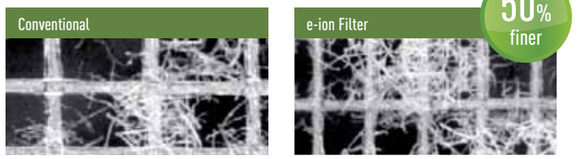
Using the force of attraction between positive and negative charges, the e-ion Filter – which is 7 times bigger and finer than ever – powerfully captures airborne dust particles.



Also captures microscopic dust (100~1,000μm)

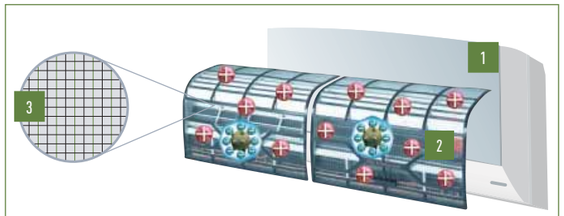
Bigger size, finer mesh

The filter covers the entire grille area.



Electric charging

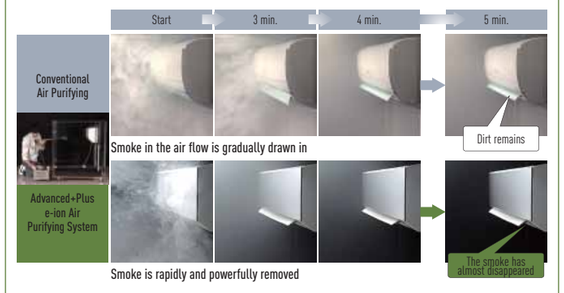
Electric Induction Fibres extend across the entire area of the filter for charging.

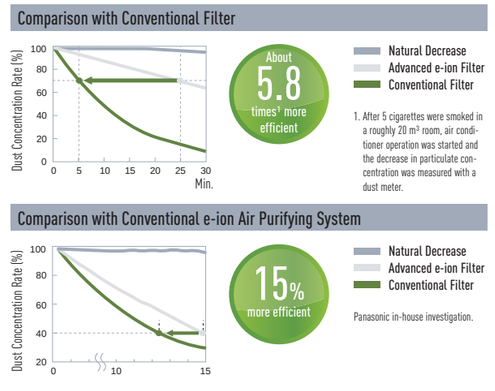


1. Active e-ion Power Module
2. Positive Charging Electric Wire
3. Electric Induction Fibres positively charge the entire filter

Electric dust collection for more efficient purification

A smoke collection test demonstrates the exceptional purifying performance.



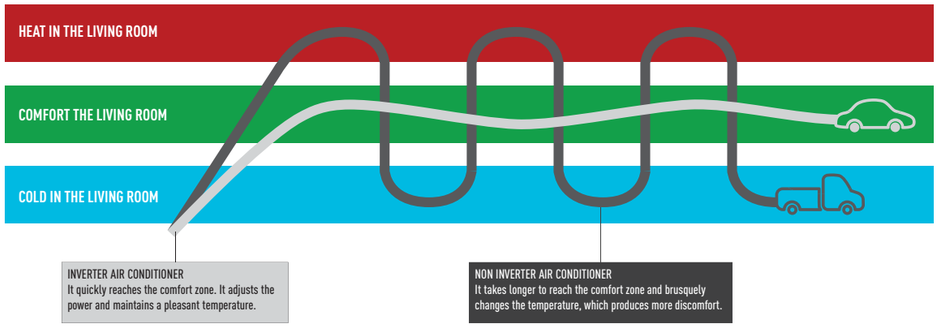

Comparison with Conventional Filter
Dust Concentration Rate (%)
Min.
About 5.8 times[1] more efficient
Natural Decrease
Advanced e-ion Filter
Conventional Filter
1. After 5 cigarettes were smoked in a roughly 20 m² room, air conditioner operation was started and the decrease in particulate concentration was measured with a dust meter.
Comparison with Conventional e-ion Air Purifying System
15% more efficient
Panasonic in-house investigation.

OUTSTANDING ENERGY-SAVING PERFORMANCE

You will always be comfortable with an Inverter air conditioner. After reaching the set temperature quickly, the power will be adjusted smoothly to keep the temperature constant. So, there will be no sharp temperature changes and you will save power. The ample range of output powers also guarantees a pleasant temperature at all times, even when the number of people in the room fluctuates. This way, Inverter air conditioners provide more precise temperature control than non-Inverter models.

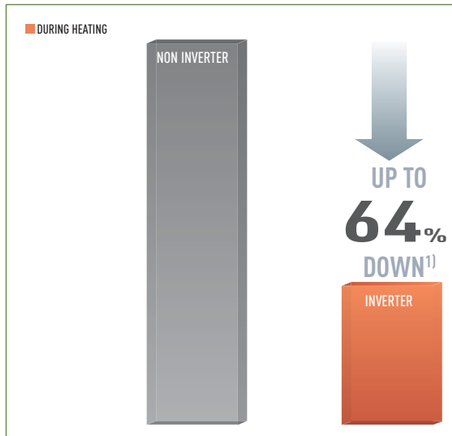
The advantages of inverter air conditioners.
comparing Inverter and non-Inverter air conditioners.

eco ideas


HEAT IN THE LIVING ROOM
COMFORT THE LIVING ROOM
COLD IN THE LIVING ROOM
INVERTER AIR CONDITIONER
It quickly reaches the comfort zone. It adjusts the power and maintains a pleasant temperature.
NON INVERTER AIR CONDITIONER
It takes longer to reach the comfort zone and brusquely changes the temperature, which produces more discomfort.

64% Cut in power consumption on heating mode for big savings*

Panasonic Inverter air conditioners provide exceptional energy-saving performance that ranks among the highest in the industry. This dramatically cuts electricity consumption and CO2 emissions, allowing an environment-friendly operation.

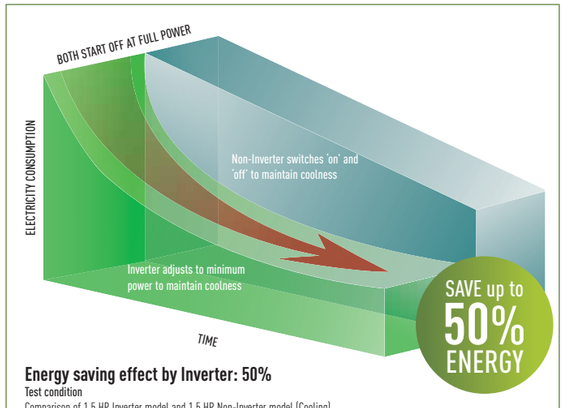


Energy saving effect by Inverter (Heating): 64%
Test condition
Comparison of Inverter model and Non-Inverter model (Heating)
Outside temperature:2˚C/1˚C Remote setting temperature: 25˚C with Fan speed (High) /Vertical Airflow direction: Auto, Horizontal Airflow direction: Front Total consumption amount are measured from the start of operation until it reaches to the set temperature. At Panasonic Amenity Room (size:16.2M2) This is the maximum energy saving value, and the effect differs according to conditions in installation and usage.

1)Comparison of cumulative electricity consumption during heating to reach the setting temperature (Panasonic in-house comparison)
Test conditions: Indoor and outdoor temperature: 7ºC/ Setting temperature: 25ºC/ Fan speed: High.

Outstanding performance with up to 50% energy savings on cooling mode

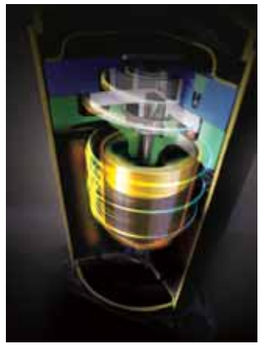
The exceptional energy-saving performance of Panasonic Intelligent Inverter air conditioners ranks among the highest in the industry.
The secret lies in its precision control. After reaching the set temperature, an Intelligent Inverter air conditioner continually adjusts compressor rotation speed to operate with minimum power – giving you up to 50% energy savings during cooling operation. By contrast, a non-Inverter unit operates on an ON-OFF cycle to maintain the temperature –so it uses twice as much electricity.



Energy saving effect by Inverter: 50%
Test condition
Comparison of 1.5 HP Inverter model and 1.5 HP Non-Inverter model (Cooling).
Outside temperature: 35˚C/24˚C Remote setting temperature: 25˚C with Fan speed (AUTO) / Vertical Airflow direction: Auto, Horizontal Airflow direction: Front total power consumption amount are measured for 8 hours from starting. At Panasonic Amenity Room (size:16.2M2) This is the maximum energy saving value, and the effect differs according to conditions in installation and usage.

How can an Inverter save energy?

The Inverter constantly adjusts compressor rotation speed to provide optimum performance at all times. This extremely precise operation enables quick cooling while reducing power consumption compared to conventional non-Inverter units.



A: The most efficient

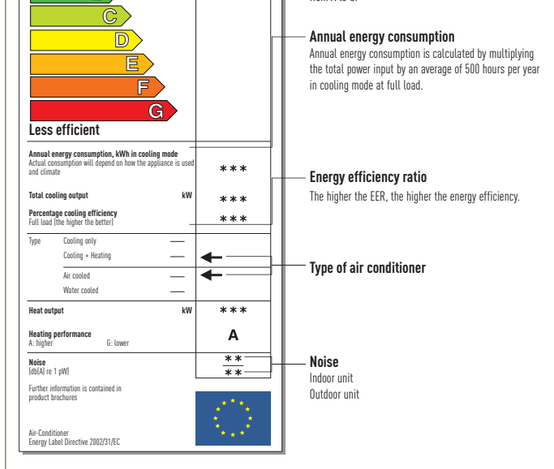
Our new models have obtained the highest energy performance classification, Class A, which puts them in the highest energy saving class. This means you can use these models every day, without having to worry about the electric bill.

Energy efficiency classifications

A European Community directive requiring energy labelling of domestic appliances came into effect in 2005. Since then, all manufacturers have been required to label each product with an efficiency level represented by a letter from A to G. This means that a class B domestic appliance consumes approximately 10% more than an A, a C 20% more than an A, etc.
As well as the corresponding letter, further information on each domestic appliance appears on the right-hand part of the sticker.
In the tables which appear alongside the product in this catalogue, the energy efficiency is referenced with the corresponding letter in white on a black arrow.

Classifications

There are seven energy efficiency classifications, from A to G.
The highest efficiency level is A and the lowest is G.



Unit energy efficiency class in cooling mode

A	3.20 < EER
B	3.20 ≥ EER > 3.00
C	3.00 ≥ EER > 2.80
D	2.80 ≥ EER > 2.60
E	2.60 ≥ EER > 2.40
F	2.40 ≥ EER > 2.20
G	2.20 ≥ EER

Unit energy efficiency class in heating mode

A	3.60 < COP
B	3.60 ≥ COP > 3.40
C	3.40 ≥ COP > 3.20
D	3.20 ≥ COP > 2.80
E	2.80 ≥ COP > 2.60
F	2.60 ≥ COP > 2.40
G	2.40 ≥ COP

These classifications are for split and multi split air conditioning units.

PANASONIC TECHNOLOGY FOR COMFORT

Extremely quiet. We have succeeded in making one of the most silent air conditioners on the market.
The indoor unit runs silently with a slow fan speed. When you press the Quiet Mode button on the remote control, the operating sound level reduces even further, down to 20 dB. At 20 dB technology our devices are as quiet as a library!
We produce discreet air conditioners which do not disturb you, even when the room is at its quietest.

INVERTER

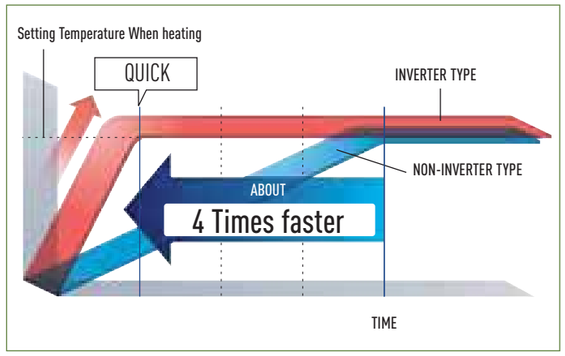
Further INVERTER advantages

- Panasonic's Inverter air conditioners control room temperature much better than models which work at a constant speed.
- An Inverter air conditioner has 64% greater heating capacity than models which work at a constant speed. They provide more than enough power to heat a room in winter [1].
- Inverter models distribute the warm air over a wider area than electric radiators. They do not pollute the room like paraffin heaters do. There is no fire risk as there is with gas heaters. Air conditioners transfer heat to the room air, so they are safe and practical.
- Tests have shown that a Panasonic Inverter air conditioner consumes half the electricity of non-Inverter models [2].

1) Comparison of cumulative electricity consumption during heating to reach the setting temperature (Panasonic in-house comparison) Test conditions: Indoor and outdoor temperature: 7ºC/ Setting temperature: 25ºC/ Fan speed: High.
2) Comparison of cumulative electricity consumption during 8 hours of cooling (Panasonic in-house comparison) Test conditions: Room temperature at start: 35ºC/ Setting temperature: 25ºC.

Quick comfort

As soon as an Inverter air conditioner is switched on, it provides the exact amount of power needed to rapidly cool or heat the room. This enables it to reach the set
temperature in about a quarter of the time required by non-Inverter models. So you're comfortable soon after you arrive home on a hot summer day, or on a cold winter morning.



Powerful Airflow with a Larger Cross Flow Fan

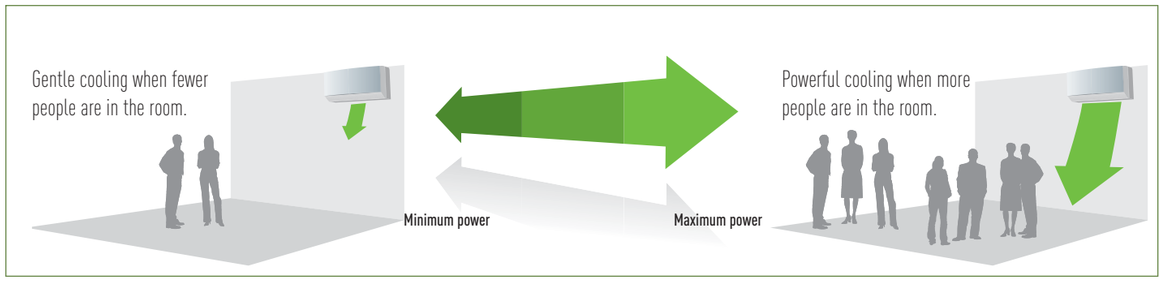
Panasonic's new models feature a large cross flow fan with improved design.The fan's larger diameter dramatically increases airflow. A powerful breeze rapidly cools the room to a comfortable temperature. And because the breeze reaches a wider area, the temperature is evenly distributed throughout the room, providing extra comfort.

*Compare with HKE.
For MKE series Inverter models except multi type.

More Precise Temperature Control

An Inverter varies output power to enable more precise temperature adjustment. In comparison, a non-Inverter air conditioner controls the temperature by switching on and off. This results in temperature fluctuations, leading to uneven cooling. With an Inverter model, you're assured a uniform room temperature for extra comfort.

Cooling power adjusts to meet changes in room temperature


Gentle cooling when fewer people are in the room.
Minimum power
Maximum power
Powerful cooling when more people are in the room.

THE SECRET OF SAVING ENERGY. DIFFERENT RANGES THAT MEET ALL TYPES OF REQUIREMENTS

Panasonic makes the widest power range on the market. In order to meet the requirements of each and every client, this line of models makes it possible to adjust consumption to match the characteristics of every room by choosing the ideal power range. No comfort is sacrificed and power consumption is not exceeded.

SAVE UP TO 15%

Panasonic's exclusive 4.5 kW models (E15, XE15, RE15) thus provide the answer to a large number of situations in which more power is required than that offered by the 3.5 kW models, but for which the 5 kW units are too powerful. Furthermore, using a 4.5 kW instead of a 5 kW unit, you will save money due to the greater efficiency of the E15 and you will win on design because the E15 is the same size as the E12, and is 18% smaller than the 5 kW. Using the E15 range, everybody is a winner, and your customer pays for exactly what he needs!
Using our E15, you can save up to 15% compared with an E18 and still obtain a perfect temperature setting in a 30 m² room.*

SAVE UP TO 14%

In the same way, Panasonic's exclusive 2.2 kW models (E7, XE7) guarantee maximum comfort at a minimum price and functioning cost – for small surface areas where the minimum standards of all the other 2.8 kW models exceed real air conditioning requirements.
Using an E7, you can save up to 14% compared with an E9 and still obtain a perfect temperature setting in an 11 m² room.*

eco ideas

Annual consumption savings with multisplit: Using a multisplit system, you can save more!

ANNUAL CONSUMPTION (KW)		"SAVINGS USING MULTISPLIT INSTEAD OF MONOSPLIT"
7+12 in Multi	615	9.0% SAVING
7+12 in 1X1	687	
12+12 in Multi	760	15.9% SAVING
12+12 in 1X1	904	
7+7+12 in Multi	605	33.3% SAVING
7+7+12 in 1X1	922	
7+7+7+12 in Multi	825	8.0% SAVING
7+7+7+12 in 1X1	1,157.5	
7+9+9+12 in Multi	825	35.9% SAVING
7+9+9+12 in 1X1	1,233	

Furthermore, using a multisplit system, you are saving space on the outdoor unit, making easy installation in small places. The multi system also have long elevation difference and long tubing, which gives flexibility on the installation on the roof.

SAVE UP TO 15%

Savings with correct dimensioning of air conditioning unit: case study for a 12 m² bedroom or on a living room of 33 m²*

MODEL	ANNUAL CONSUMPTION (KW)	SAVING	USING A E7 AND NOT A E9 ON A 12 M² ROOM
KIT-XE7-MKE	235	12,3%	Furthermore, with a E7, you are not only saving money but the E7 is quieter than the E9!
KIT-XE9-MKE	268		
MODEL	**ANNUAL CONSUMPTION (KW)**	**SAVING**	**USING A E15 AND NOT A E18 ON A 33 M² LIVING ROOM**
KIT-E15-MKE	630	14,3%	Furthermore, with a E15, you are not only saving money, but have smaller and discrete indoor units, and incredibly silent (only 25 dB!)
KIT-E18-MKE	735		

REDUCE CONSUMPTION BY UP TO 36%

Panasonic's multi split. Conditions more, consumes less

If air conditioning requirements exceed the ambit of a single room, Panasonic offers you a very extensive range of possibilities with up to 4 indoor units connected to a single outdoor unit. In this way, not only is the purchase price cheaper, the installation easier, the space for the outdoor units reduced and the elevation difference bigger, but consumption is also reduced enormously. This is because the consumption of one outdoor unit which powers four indoor units is much less than the sum of four outdoor units of individual splits.
You can reduce consumption by up to 36% using the multi-split as opposed to the 1x1!*

* Standard conditions: 2.5 m High ceiling; 1 person per 10 m²; 70 w lighting per 10 m²; 1.5 m² window per 10 m² oriented east or west; good thermal insulation on the walls.

DOMESTIC AIR CONDITIONER RANGE		COOLING POWER Rated kW (Min-Max)	EER	HEATING POWER Rated kW (Min-Max)	COP	NOISE PRESSURE LEVEL 1) dB* Cooling/Heating	DIMENSIONS MM 1) (H x W x D)	FOR STANDARD ROOMS BETWEEN m² 2) 10 20 30 40
ETHEREA INVERTER+ // SILVER	KIT-XE7-MKE	2,05 (0,75-2,40)	4,36 A	2,80 (0,75-4,00)	4,41 A	20 / 20	290 x 870 x 204	
	KIT-XE9-MKE	2,50 (0,85-3,00)	4,67 A	3,40 (0,85-5,00)	4,63 A	20 / 20	290 x 870 x 204	
	KIT-XE12-MKE	3,50 (0,85-4,00)	4,07 A	4,00 (0,85-6,00)	4,21 A	20 / 20	290 x 870 x 204	
	KIT-XE15-MKE	4,20 (0,85-5,00)	3,33 A	5,30 (0,85-6,80)	3,68 A	25 / 29	290 x 870 x 204	
	KIT-XE18-MKE	5,00 (0,98-6,00)	3,40 A	5,80 (0,98-8,00)	3,77 A	34 / 34	290 x 1.070 x 235	
	KIT-XE21-MKE	6,30 (0,98-7,10)	2,85 C	7,20 (0,98-8,50)	3,43 B	34 / 34	290 x 1.070 x 235	
ETHEREA INVERTER+ // WHITE	KIT-E7-MKE	2,05 (0,75-2,40)	4,36 A	2,80 (0,75-4,00)	4,41 A	20 / 20	290 x 870 x 204	
	KIT-E9-MKE	2,50 (0,85-3,00)	4,67 A	3,40 (0,85-5,00)	4,63 A	20 / 20	290 x 870 x 204	
	KIT-E12-MKE	3,50 (0,85-4,00)	4,07 A	4,00 (0,85-6,00)	4,21 A	20 / 20	290 x 870 x 204	
	KIT-E15-MKE	4,20 (0,85-5,00)	3,33 A	5,30 (0,85-6,80)	3,68 A	25 / 29	290 x 870 x 204	
	KIT-E18-MKE	5,00 (0,98-6,00)	3,40 A	5,80 (0,90-8,00)	3,77 A	34 / 34	290 x 1.070 x 235	
	KIT-E21-MKE	6,30 (0,98-7,10)	2,85 C	7,20 (0,98-8,50)	3,43 B	34 / 34	290 x 1.070 x 235	
	KIT-E24-MKE	6,80 (0,98-8,10)	3,21 A	8,60 (0,98-9,90)	3,23 C	35 / 35	290 x 1.070 x 235	
	KIT-E28-MKE	7,65 (0,98-8,60)	3,01 B	9,60 (0,98-11,00)	2,91 D	35 / 35	290 x 1.070 x 235	
RE TYPE // STANDARD INVERTER	KIT-RE9-JKE-1	2,50 (0,90-3,00)	3,57 A	3,30 (0,90-4,10)	4,02 A	22 / 25	290 x 848 x 204	
	KIT-RE12-JKE-1	3,50 (0,90-3,90)	3,47 A	4,25 (0,90-5,10)	3,79 A	22 / 25	290 x 848 x 204	
	KIT-RE15-JKE-1	4,20 (1,00-4,60)	3,33 A	5,00 (0,90-6,80)	3,61 A	29 / 28	290 x 848 x 204	
	KIT-RE18-JKE-1	5,00 (0,90-6,00)	3,40 A	5,80 (0,90-8,00)	3,77 A	37 / 37	290 x 1.070 x 235	
	KIT-RE24-JKE-1	6,80 (0,90-8,10)	3,21 A	8,60 (0,90-9,90)	3,23 C	38 / 38	290 x 1.070 x 235	
PW TYPE // STANDARD HEAT PUMP	KIT-PW9-GKE	2,65	3,21 A	2,85	3,63 A	31 / 31	250 x 770 x 205	
	KIT-PW12-GKE	3,40	3,22 A	3,80	3,61 A	32 / 31	280 x 799 x 183	
	KIT-PW18-GKE	5,10	2,91 C	5,30	3,35 C	38 / 38	275 x 998 x 230	
	KIT-PW24-JKE	7,03	2,53 E	7,50	2,87 D	41 / 41	275 x 998 x 230	
V TYPE // STANDARD COOLING ONLY	KIT-V7-DKE	2,40	3,24 A	-	-	24	280 x 799 x 183	
	KIT-V9-DKE	3,00	3,21 A	-	-	24	280 x 799 x 183	
	KIT-V12-DKE	3,68	3,23 A	-	-	27	280 x 799 x 183	
	KIT-V18-DKE	5,30	3,25 A	-	-	35	275 x 998 x 230	
	KIT-V24-DKE	7,03	2,70 D	-	-	38	275 x 998 x 230	
	KIT-V28-EKE	7,91	3,22 A	-	-	42	340 x 1.150 x 260	
FLOOR CONSOLE TYPE // INVERTER+	KIT-E9-GFEW-1	2,50 (0,80-3,00)	4,39 A	3,60 (0,80-5,00)	4,16 A	23 / 23	600 x 700 x 210	
	KIT-E12-GFEW-1	3,50 (0,80-3,80)	3,63 A	4,80 (0,80-6,10)	3,64 A	24 / 23	600 x 700 x 210	
	KIT-E18-GFEW-1	5,00 (0,90-5,60)	3,23 A	5,80 (0,90-7,10)	3,63 A	32 / 32	600 x 700 x 210	
FLOOR OR CEILING // INVERTER	KIT-E15-DTE	4,15 (0,90-4,55)	3,22	5,17 (0,90-6,30)	3,34 C	34 / 30	540 x 1.028 x 200	
	KIT-E18-DTE	5,00 (0,90-5,40)	3,01 B	6,10 (0,90-7,60)	3,35 C	36 / 32	540 x 1.028 x 200	
	KIT-E21-DTE	5,80 (0,90-6,60)	3,01 B	6,80 (0,90-8,10)	3,42 B	38 / 34	540 x 1.028 x 200	
ETHEREA MULTI SPLIT // INVERTER+ 2x1	KIT-2XE/E77-MBE	4,00 (1,50-5,00)	3,66 A	5,40 (1,10-7,00)	4,62 A	26 / 26	290 x 870 x 204 (x2)	X2
	KIT-2XE/E79-MBE	4,50 (1,50-5,20)	3,66 A	5,40 (1,10-7,00)	4,62 A	26 / 26	290 x 870 x 204 (x2)	X1 X1
	KIT-2XE/E712-MBE	4,50 (1,50-5,20)	3,60 A	5,40 (1,10-7,00)	4,62 A	26 / 29	290 x 870 x 204 (x2)	X1 X1
	KIT-2XE/E99-MBE	4,80 (1,50-5,20)	3,66 A	5,40 (1,10-7,00)	4,62 A	26 / 26	290 x 870 x 204 (x2)	X2
	KIT-2XE/E99-MKE	4,80 (1,50-5,20)	3,66 A	5,60 (1,10-7,20)	4,48 A	26 / 26	290 x 870 x 204 (x2)	X2
	KIT-2XE/E912-MKE	5,00 (1,50-5,30)	3,36 A	5,60 (1,10-7,20)	4,55 A	26 / 29	290 x 870 x 204 (x2)	X1 X1
	KIT-2XE/E1212-MKE	5,20 (1,50-5,40)	3,42 A	5,60 (1,10-7,20)	4,63 A	29 / 29	290 x 870 x 204 (x2)	X2
3x1	KIT-3XE/E7712-MBE	5,20 (1,90-7,20)	4,30 A	6,80 (1,40-8,30)	4,63 A	26 / 29 (E12)	290 x 870 x 204 (x3)	X2 X1
	KIT-3XE/E7715-MBE	5,20 (1,80- 7,30)	4,30 A	6,80 (1,60-8,30)	4,72 A	26 / 29 (E15)	290 x 870 x 204 (x3)	X2 X1
4x1	KIT-4XE/E77712-MBE	6,80 (1,90-8,80)	4,12 A	8,60 (3,00-10,60)	4,65 A	26 / 29 (E12)	290 x 870 x 204 (x4)	X3 X1
	KIT-4XE/E77715-MBE	6,80 (1,90-8,80)	4,12 A	8,60 (3,00-10,60)	4,65 A	26 / 29 (E15)	290 x 870 x 204 (x4)	X3 X1
	KIT-4XE/E77712-MKE	8,00 (2,80-8,90)	3,76 A	9,40 (3,40-10,50)	4,43 A	26 / 29 (E12)	290 x 870 x 204 (x4)	X3 X1
	KIT-4XE/E77715-MKE	8,00 (2,80-8,90)	3,76 A	9,40 (3,80-10,50)	4,50 A	26 / 29 (E12)	290 x 870 x 204 (x4)	X3 X1

SUITABLE MIN MAX

1) Indoor unit.
2) Standard conditions: 2.5 m high ceiling; 1 person per 10 m²; 70 w lighting per 10 m²; 1.5 m² window per 10 m² oriented east or west; good thermal insulation on the walls.

DOMESTIC AIR CONDITIONER RANGE

INDOOR UNITS	2.2 kW	2.8 kW	3.2 kW	4.5 kW	5.0 kW	6.0 kW	6.5 kW	8.0 kW
WALL MOUNTED ETHEREA // INVERTER+ // SILVER PAGE 22 / 25	 KIT-XE7-MKE	 KIT-XE9-MKE	 KIT-XE12-MKE	 KIT-XE15-MKE	 KIT-XE18-MKE	 KIT-XE21-MKE		
WALL MOUNTED ETHEREA // INVERTER+ // WHITE PAGE 26 / 29	 KIT-E7-MKE	 KIT-E9-MKE	 KIT-E12-MKE	 KIT-E15-MKE	 KIT-E18-MKE	 KIT-E21-MKE	 KIT-E24-MKE	 KIT-E28-MKE
WALL MOUNTED ETHEREA // INVERTER+ // SILVER // WHITE PAGE 30	 KIT-XE7-MKE-3 / KIT-E7-MKE-3	 KIT-XE9-MKE-3 / KIT-E9-MKE-3	 KIT-XE12-MKE-3 / KIT-E12-MKE-3	 KIT-XE15-MKE-3 / KIT-E15-MKE-3				
WALL MOUNTED // INVERTER+ PAGE 32		 KIT-RE9-JKE-1	 KIT-RE12-JKE-1	 KIT-RE15-JKE-1	 KIT-RE18-JKE-1		 KIT-RE24-JKE-1	
WALL MOUNTED TYPE // INVERTER+ // -15ºC PAGE 34		 KIT-E9-HKEA	 KIT-E12-HKEA	 KIT-E15-HKEA	 KIT-E18-HKEA	 KIT-E21-HKEA		
WALL-MOUNTED TYPE // STANDARD HEAT PUMP PAGE 36		 KIT-PW9-GKE	 KIT-PW12-GKE		 KIT-PW18-GKE		 KIT-PW24-JKE	
WALL-MOUNTED TYPE // STANDARD COOLING ONLY PAGE 38	 KIT-V7-DKE	 KIT-V9-DKE	 KIT-V12-DKE		 KIT-V18-DKE		 KIT-V24-DKE	 KIT-V28-EKE
FLOOR CONSOLE TYPE // INVERTER+ PAGE 40		 KIT-E9-GFEW-1	 KIT-E12-GFEW-1		 KIT-E18-GFEW-1			
SINGLE SPLIT FLOOR OR CEILING TYPE // INVERTER PAGE 42				 KIT-E15-DTE	 KIT-E18-DTE	 KIT-E21-DTE		
ETHEREA MULTI SPLIT 2X1 // INVERTER+ PAGE 44 / 47					 KIT-2XE/E99-MKE/ 2XE/E912-MKE / 2XE/E1212-MKE			
ETHEREA MULTI SPLIT 3X1 // INVERTER+ PAGE 48						 KIT-3XE/E7712-MKE / 3XE/E7715-MKE		
ETHEREA MULTI SPLIT 4X1 // INVERTER+ PAGE 50								 KIT-4XE/E77712-MKE / 4XE/E77715-MKE

FEATURE EXPLANATIONS

Healthy Air Quality

E-ION+ AIR PURIFYING SYSTEM
E-ions are shot out to catch dust and inactivate airborne bacteria and mould. The positively charged e-ion filter attracts dust to thoroughly clean the room.

NEWLY DESIGNED PATROL SENSOR
The patrol sensor monitors microscopic dirt in the air and air purifying starts as soon as it is detected. It continues operating 24-hr a day even when the air conditioner is switched OFF to maintain room air quality.

MILD DRY COOLING
Fine control helps prevent a rapid decrease in room humidity while maintaining the set temperature. Maintains an RH* up to 10% higher than cooling operation (*RH: Relative Humidity).
Ideal when sleeping with the air conditioner on.

SOFT BREEZE MODE
The Soft Breeze mode eliminates excess humidity with a soft breeze and gives you the feeling of well-being without significant temperature changes.

ION BENEFIT
Negative ions, found in the air near waterfalls and forests, generally produce a great sense of wellbeing. Panasonic brings all the benefits to your home, at the push of a button.

SUPER ALLERU-BUSTER FILTER
The super alleru-buster filter eliminates the allergens it captures. It combines three functions in one (anti-allergen, anti-virus and anti-bacteria) to keep room air clean and healthy.

ONE-TOUCH ANTI-MOULD AIR FILTER

ODOUR-REMOVING FUNCTION
Allows the exchanger to be cleaned, preventing possible odours. While this function is connected, the fan also remains off momentarily to avoid unpleasant odours while the exchanger is being cleaned.

REMOVABLE, WASHABLE PANEL
The front panel is easy to keep clean. It can be removed quickly in one single step and can be washed in water. A clean front panel ensures smoother, more efficient operation, which can save energy.

Comfort

INVERTER PLUS SYSTEM
Inverter plus products improve on the characteristics of standard Inverter air conditioners by over 20%. This means 20% less consumption and 20% off your electric bill. A Inverter plus is also A class on cooling and heating mode.

INVERTER SYSTEM
The Inverter range provides greater efficiency, more comfort. Provides more precise temperature control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels.

ECONAVI
ECONAVI sensor determine the human activity level and the position in the room and adjust the air flow orientationfor maximum comfort and maximum savings. With ECONAVI, you can save up to 30%.

AUTOCOMFORT
The Autocomfort system detects conditions in the room and switches to energy saving operation when nobody is on the room. However, priority is given to comfort, so cooling power is increased when there's a lot of human activity. This function provides both comfort and energy saving.

SUPER QUIET MODE
Thanks to its latest generation compressor and its twin blade fan, our outdoor unit is one of the most silent on the market. The indoor unit emits an almost imperceptible 20 dB.

DOWN TO -15ºC IN COOLING ONLY MODE
The air conditioner works in cooling only mode with an outdoor temperature of -15ºC.

DOWN TO -15ºC IN HEAT PUMP
The air conditioner works in heat pump mode with an outdoor temperature as low as -15ºC.

POWERFUL MODE
High power for immediate air conditioning. The rapid and effective powerful mode is ideal for when you come home on the hottest or coldest days. It works at maximum power to reach the desired temperature in 15 minutes.

SOFT DRY OPERATION MODE
The soft dry mode eliminates excess moisture with a soft breeze and provides a sense of wellbeing without much change in temperature.

WIDE & LONG AIRFLOW VANE
This vane has been designed so that the air goes further. It sends air to every corner of the room to keep the whole room in the comfort zone.

PERSONAL AIRFLOW CREATION
Permits the air direction to be adjusted vertically and horizontally. This feature can be conveniently selected by remote control.

AUTOMATIC VERTICAL AIRFLOW CONTROL
The flap swings up and down automatically, making a vertical sweep which spreads the flow throughout the room. The flow can also be set a fixed angle with the remote control.

MANUAL HORIZONTAL AIRFLOW CONTROL

AUTO MODE (INVERTER)
Change automatically from cooling to heating in function of the temperature of the room.

SIMPLE AUTO CHANGEOVER
When the difference between the measured temperature and the set temperature is 3ºC or more, it automatically switches over the current operation mode to heating or cooling mode necessary to keep the temperature at a constantly comfortable level.

HOT START MODE
On the start of heating cycle and after defrost cycle, the indoor fan will start up once the indoor heat exchanger is warm.

Use

12-HOUR ON&OFF TIMER

REAL TIME CLOCK WITH DUAL ON&OFF TIMER
This feature enables you to preset two different sets of start/stop operation timer (hour and minute) within a 24-hour time frame.

REAL TIME CLOCK WITH SINGLE ON&OFF TIMER
The exact operating time (hour and minute) can be set in advance. From here on, the unit will operate in accordance to these preset hours every day until the system is reset.

LCD WIRELESS REMOTE CONTROLLER

Reliability

AUTOMATIC RESTART
This function permits automatic restarting if safe mode operation has stopped for some unusual reason, such as after a power cut. As soon as the power is back, the unit restarts with the parameters selected before it stopped.

LONG PIPING
This is a figure which indicates the maximum length of pipe between the outdoor unit and the indoor unit(s). The long distances permitted are demonstration of the many installations possible.

TOP-PANEL MAINTENANCE ACCESS
Maintenance of an outdoor unit used to be quite a tedious task. Now, with the possibility of removing the top cover, maintenance is quick and easy.

SELF-DIAGNOSIS FUNCTION
With this function the unit carries out a process self-diagnosis when a particular function does not work correctly. This allows faster servicing.

FEATURE COMPARISON

	MODELS	KIT-XE7-MKE KIT-XE9-MKE KIT-XE12-MKE KIT-XE15-MKE KIT-XE18-MKE KIT-XE21-MKE	KIT-E7-MKE KIT-E9-MKE KIT-E12-MKE KIT-E15-MKE KIT-E18-MKE KIT-E21-MKE KIT-E24-MKE KIT-E28-MKE	KIT-RE9-JKE-1 KIT-RE12-JKE-1 KIT-RE15-JKE-1 KIT-RE18-JKE-1 KIT-RE24-JKE-1	KIT-XE/E7-MKE-3 KIT-XE/E9-MKE-3 KIT-XE/E12-MKE-3 KIT-XE/E15-MKE-3	KIT-E9-HKEA KIT-E12-HKEA KIT-E15-HKEA KIT-E18-HKEA KIT-E21-HKEA	KIT-PW9-GKE KIT-PW12-GKE KIT-PW18-GKE KIT-PW24-JKE	KIT-V7-DKE KIT-V9-DKE KIT-V12-DKE KIT-V18-DKE KIT-V24-DKE KIT-V28-EKE	KIT-E9-GFEW-1 KIT-E12-GFEW-1 KIT-E18-GFEW-1	KIT-E15-DTE KIT-E18-DTE KIT-E21-DTE	KIT-2XE/E77-MBE KIT-2XE/E79-MBE KIT-2XE/E712-MBE KIT-2XE/E99-MBE	KIT-2XE/E99-MKE KIT-2XE/E912-MKE KIT-2XEE/1212-MKE	KIT-3XE/E7712-MKE KIT-3XE/E7715-MKE	KIT-4XE/E7712-MKE KIT-4XE/E7715-MKE KIT-4XE/E7712-MBE KIT-4XE/E7715-MBE
HEALTHY AIR QUALITY	Advanced+Plus e-ion. Air purifying system	✘	✘		✘						✘	✘	✘	✘
	Newly Designed Patrol Sensor	✘	✘		✘						✘	✘	✘	✘
	Mild Dry Cooling	✘	✘		✘									
	Soft Breeze			✘ For RE9, RE12 and RE15										
	Ion Benefit					✘		✘						
	Super Alleru-buster filter			✘ 10 years		✘	✘ Optional	✘		✘ Optional				
	One-Touch anti-mould air filter			✘				✘	✘	✘				
	Odour-removing function	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘
	Removable, washable panel	✘	✘	✘	✘	✘	✘	✘	✘		✘	✘	✘	✘
COMFORT	Inverter+ system	✘	✘		✘	✘			✘		✘	✘	✘	✘
	Inverter system			✘						✘				
	ECONAVI	✘	✘		✘							✘ Applicable for MKE indoors	✘ Applicable for MKE indoors	✘ Applicable for MKE indoors
	AUTOCOMFORT	✘	✘		✘							✘ Applicable for MKE indoors	✘ Applicable for MKE indoors	✘ Applicable for MKE indoors
	Super Quiet mode	✘	✘	✘ For RE9, RE12 and RE15	✘	✘		✘	✘	✘	✘	✘	✘	✘
	Down to -15ºC in cooling only					✘								
	Down to -15ºC in heat pump				✘	✘			✘				✘	✘ Applicable for 4E 23
	Powerful mode	✘	✘	✘ For RE9, RE12 and RE15	✘	✘		✘	✘	✘	✘	✘	✘	✘
	Soft dry operation mode	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘
	Wide & long airflow vane	✘ For XE7, XE9, XE12 and XE15	✘ For E7, E9, E12 and E15		✘						✘	✘	✘	✘
	Personal airflow creation	✘ For XE18 and XE21	✘ For E18, E21, E24 and E28	✘ For RE18 and RE24		✘		✘ For V18, V24 and V28						
	Automatic vertical airflow control	✘ For XE7, XE9, XE12 and XE15	✘ For E7, E9, E12 and E15	✘ For RE9, RE12 and RE15	✘		✘	✘ For V7, V9 and V12	✘	✘	✘	✘	✘	✘
	Manual horizontal airflow control	✘ For XE7, XE9, XE12 and XE15	✘ For E7, E9, E12 and E15	✘ For RE9, RE12 and RE15	✘			✘ For V7, V9 and V12	✘	✘	✘	✘	✘	✘
	AUTO mode (Inverter)	✘	✘	✘	✘	✘			✘	✘	✘	✘	✘	✘
	Simple Auto Changeover	✘	✘	✘	✘									
	Hot start mode	✘	✘	✘	✘	✘	✘		✘	✘				
USE	12-hour ON&OFF timer			✘ For RE9, RE12 and RE15			✘ For PW9 and PW12							
	Real time clock with dual ON&OFF timer	✘	✘		✘						✘	✘	✘	✘
	Real time clock with single ON&OFF timer			✘ For RE18 and RE24		✘	✘ For PW18 and PW24	✘	✘					
	LCD Wireless remote controller	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘
RELIABILITY	Automatic restart	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘
	Long piping	✘ 15m (XE7, XE9, XE12 and XE15) 20 m (XE18 and XE21)	✘ 15m (E7, E9, E12 and E15) 20m (E18 / E21) 30 m (E24 / E28)	✘ 15m (RE9, RE12 and RE15) 20m (RE18) 30m (RE24)	✘ 15m	✘ 15m 20m (E18 and E21)	✘ 10m (PW9) 15m (PW12) 25m (PW18 and PW24)	✘ 10m (V7, V9) 15m (V12) 25m (V18/V24) 30m (V28)	✘ 15m 20m (E18)	✘ 20m	See page 55	See page 55	See page 55	See page 55
	Top-Panel maintenance access	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘
	Self-diagnosis function	✘	✘	✘	✘	✘			✘	✘	✘	✘	✘	✘

A class energy saving INVERTER+

WALL MOUNTED ETHEREA // INVERTER+ // SILVER

NEW ETHEREA WITH ECONAVI SENSOR, MORE EFFICIENT, MORE COMFORT, MORE DESIGN, MORE HEALTHY AIR
ECONAVI sensor determine the human activity level and the position in the room and adjust the air flow orientation for maximum comfort and maximum savings. With ECONAVI, you can save up to 30%.
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30% savings ECONAVI

improved comfort AUTOCOMFORT

quality air control 24 h PATROL SENSOR

pure air system e-ION PLUS

perfect humidity control MILD DRY

Maintains a Relative Humidity up to 10% higher than cooling operation. Ideal when sleeping with the air conditioner on.

silent air 20 dB SUPER QUIET

FOR XE7, XE9 AND XE12

NEW 2011

ETHEREA

INCLUDED WITH THE INDOOR UNIT

OPTIONAL WIRED REMOTE CONTROL CZ-RD514C

KIT			KIT-XE7-MKE	KIT-XE9-MKE	KIT-XE12-MKE	KIT-XE15-MKE
Indoor			**CS-XE7MKEW**	**CS-XE9MKEW**	**CS-XE12MKEW**	**CS-XE15MKEW**
Outdoor			**CU-E7MKE**	**CU-E9MKE**	**CU-E12MKE**	**CU-E15MKE**
Cooling capacity	Nominal (Min - Max)	kW	2,05 (0,75-2,40)	2,50 (0,85-3,00)	3,50 (0,85-4,00)	4,20 (0,85-5,00)
	Nominal (Min - Max)	kCal/h	1.760 (650-2.060)	2.150 (730-2.580)	3.010 (730-3,440)	3.610 (730-4.300)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,36 (3,13-4,14) A**	**4,67 (3,47-4,11) A**	**4,07 (3,40-3,54) A**	**3,33 (3,27-3,18) A**
Power input Cooling	Nominal (Min - Max)	kW	0,47 (0,24-0,58)	0,535 (0,245-0,730)	0,860 (0,250-1,130)	1,26 (0,260-1,570)
Heating capacity	Nominal (Min - Max)	kW	2,80 (0,75-4,00)	3,40 (0,85-5,00)	4,00 (0,85-6,00)	5,30 (0,80-6,80)
	Nominal (Min - Max)	kCal/h	2.410 (650-3.440)	2.920 (730-4.300)	3.440 (730-5.160)	4.560 (730-5.850)
Heating capacity at -7°C	Nominal	kW	2,35	2,88	3,46	3,94
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,41 (3,26-3,92) A**	**4,63 (3,54-3,85) A**	**4,21 (3,47-3,51) A**	**3,68 (3,33-3,51) A**
Power input Heating	Nominal (Min - Max)	kW	0,635 (0,23-1,02)	0,735 (0,24-1,30)	0,950 (0,245-1,71)	1,44 (0,255-1,940)
Annual Energy Consumption [2]		kWh	235	268	430	630
INDOOR UNIT						
Air Volume	Cooling / Heating	m³/h	654 / 684	678 / 702	750 / 768	750 / 804
Moisture removal volume		l/h	1,3	1,5	2,0	2,4
Sound pressure Level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	37 / 24 / 20	39 / 25 / 20	42 / 28 / 20	43 / 31 / 25
	Heating (Hi / Lo / S-Lo)	dB(A)	38 / 25 / 20	40 / 27 / 20	42 / 33 / 20	43 / 35 / 29
Sound power Level	Cooling (Hi)	dB	53	55	58	59
	Heating (Hi)	dB	54	56	58	59
Dimensions	H x W x D	mm	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204
Net weight		kg	9	9	9	9
Air purifier filter			Patrol + E-ion	Patrol + E-ion	Patrol + E-ion	Patrol + E-ion
OUTDOOR UNIT						
Power source		V	230	230	230	230
Connection		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Current Cooling	Nominal	A	2,2	2,5	4,0	5,7
Current Heating	Nominal	A	3,0	3,4	4,4	6,6
Max. current		A	4,7	5,8	7,8	9,0
Air Volume	Cooling / Heating	m³/h	2.034 / 2.034	1,788 / 1,788	1,860 / 1,860	1,884 / 1,884
Sound pressure Level [3]	Cooling (Hi)	dB(A)	45	46	48	49
	Heating (Hi)	dB(A)	46	47	50	51
Sound power Level	Cooling (Hi)	dB	60	61	63	64
	Heating (Hi)	dB	61	62	65	66
Dimensions [4]	H x W x D	mm	540 x 780 x 289	540 x 780 x 289	540 x 780 x 289	540 x 780 x 289
Net weight		kg	33	34	34	34
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)	1/2" (12,70)
Refrigerant Loading	R410A	kg	0,830	0,950	0,980	1,01
Elevation difference (in/out) [5]	Max	m	15	15	15	15
Piping length	Min / Max	m	3-15	3-15	3-15	3-15
Piping length without refrigerant increase	Max	m	7,5	7,5	7,5	7,5
Additional gas		g/m	20	20	20	20
Operating range [3]	Cooling Min / Max	°C	+5 / +43	+5 / +43	+5 / +43	+5 / +43
	Heating Min / Max	°C	-5 / +24	-5 / +24	-5 / +24	-5 / +24

TECHNICAL FOCUS

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- NEW GENERATION OF E-ION AIR PURIFYING SYSTEM WITH 24-HR PATROL SENSOR
- MILD DRY COOLING: PREVENT A RAPID DECREASE IN ROOM HUMIDITY
- SUPER QUIET! ONLY 20 dB, EQUIVALENT TO NIGHT-TIME IN THE COUNTRY (XE7, XE9 AND XE12)
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE

eco ideas

Energy-Efficiency Classification
Most efficient level: A
(CS-XE9MKEW EER/COP: 4.67/4.63)

GLOBAL REMARKS

Rating conditions	Cooling	Heating
Inside air temperature	27°C DB / 19°C WB	20°C DB
Outside air temperature	35°C DB / 24°C WB	7°C DB / 6°C WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5°C with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with MKE units.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-XE7-MKE // KIT-XE9-MKE // KIT-XE12-MKE // KIT-XE15-MKE

HEALTHY AIR
- E-ion plus air purifying system
- Patrol sensor to detect and eliminate contaminants
- Air conditioner and purifier with simultaneous or independent operation
- Mild Dry Cooling operation mode for increased comfort and prevention of skin moisture loss

ENERGY EFFICIENCY AND ECOLOGY
- Maximum efficiency Inverter system, for bigger savings
- **NEW!**-30% consumption with ECONAVI on heat pump (-20% on cooling mode)
- R410A refrigerant gas

COMFORT
- Super Quiet mode (from 20 dB)
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE
- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- 15 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-E7MKE CU-E12MKE
CU-E9MKE CU-E15MKE

Specifications subject to change without notice

A class energy saving INVERTER+

WALL MOUNTED ETHEREA // INVERTER+ // SILVER

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30% savings ECONAVI

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quality air control 24 h PATROL SENSOR

pure air system e-ION PLUS

perfect humidity control MILD DRY

Maintains a Relative Humidity up to 10% higher than cooling operation. Ideal when sleeping with the air conditioner on.

NEW 2011

ETHEREA

INCLUDED WITH THE INDOOR UNIT

OPTIONAL WIRED REMOTE CONTROL CZ-RD514C

KIT			KIT-XE18-MKE	KIT-XE21-MKE
Indoor			**CS-XE18MKEW**	**CS-XE21MKEW**
Outdoor			**CU-E18MKE**	**CU-E21MKE**
Cooling capacity	Nominal (Min - Max)	kW	5,00 (0,98-6,00)	6,30 (0,98-7,10)
	Nominal (Min - Max)	kCal/h	4.300 (840-5.160)	5.420 (840-6.110)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**3,40 (3,50-2,96) A**	**2,85 (3,50-2,80) C**
Power input Cooling	Nominal (Min - Max)	kW	1,47 (0,28-2,03)	2,21 (0,28-2,54)
Heating capacity	Nominal (Min - Max)	kW	5,80 (0,98-8,00)	7,20 (0,98-8,50)
	Nominal (Min - Max)	kCal/h	4.990 (840-6.880)	6.190 (840-7.310)
Heating capacity at -7°C	Nominal	kW	4,98	5,24
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**3,77 (2,88-3,08) A**	**3,43 (2,88-3,09) B**
Power input Heating	Nominal (Min - Max)	kW	1,54 (0,34-2,60)	2,10 (0,34-2,75)
Annual Energy Consumption [2]		kWh	735	1.105
INDOOR UNIT				
Air Volume	Cooling / Heating	m^3/h	978 / 1.074	1.038 / 1.110
Moisture removal volume		l/h	2,8	3,5
Sound pressure Level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	44 / 37 / 34	45 / 37 / 34
	Heating (Hi / Lo / S-Lo)	dB(A)	44 / 37 / 34	45 / 37 / 34
Sound power Level	Cooling (Hi)	dB	60	61
	Heating (Hi)	dB	60	61
Dimensions	H x W x D	mm	290 x 1.070 x 235	290 x 1.070 x 235
Net weight		kg	12	12
Air purifier filter			Patrol + E-ion	Patrol + E-ion
OUTDOOR UNIT				
Power source		V	230	230
Connection		mm^2	4 x 2,5	4 x 2,5
Current Cooling	Nominal	A	6,6	9,9
Current Heating	Nominal	A	6,9	9,4
Max, current		A	11,4	12,1
Air Volume	Cooling / Heating	m^3/h	2.352 / 2.274	2.502 / 2.424
Sound pressure Level [3]	Cooling (Hi)	dB(A)	47	48
	Heating (Hi)	dB(A)	47	49
Sound power Level	Cooling (Hi)	dB	61	62
	Heating (Hi)	dB	61	63
Dimensions [4]	H x W x D	mm	695 x 875 x 320	695 x 875 x 320
Net weight		kg	45	46
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	1/2" (12,70)	1/2" (12,70)
Refrigerant Loading	R410A	kg	1,22	1,28
Elevation difference (in/out) [5]	Max	m	15	15
Piping length	Min / Max	m	3-20	3-20
Piping length without refrigerant increase	Max	m	7,5	7,5
Additional gas		g/m	20	20
Operating range [3]	Cooling Min / Max	°C	+5 / +43	+5 / +43
	Heating Min / Max	°C	-5 / +24	-5 / +24

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GLOBAL REMARKS	Rating conditions	Cooling	Heating
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5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-XE18-MKE // KIT-XE21-MKE

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- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- 15 m maximum connection distance (20 m for XE18 and XE21)
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-E18MKE
CU-E21MKE

A class energy saving INVERTER+

WALL MOUNTED ETHEREA // INVERTER+ // WHITE

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FOR E7, E9 AND E12

NEW 2011

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INCLUDED WITH THE INDOOR UNIT

OPTIONAL WIRED REMOTE CONTROL CZ-RD514C

KIT			KIT-E7-MKE	KIT-E9-MKE	KIT-E12-MKE	KIT-E15-MKE
Indoor			**CS-E7MKEW**	**CS-E9MKEW**	**CS-E12MKEW**	**CS-E15MKEW**
Outdoor			**CU-E7MKE**	**CU-E9MKE**	**CU-E12MKE**	**CU-E15MKE**
Cooling capacity	Nominal (Min - Max)	kW	2,05 (0,75-2,40)	2,50 (0,85-3,00)	3,50 (0,85-4,00)	4,20 (0,85-5,00)
	Nominal (Min - Max)	kCal/h	1.760 (650-2.060)	2.150 (730-2.580)	3.010 (730-3.440)	3.610 (730-4.300)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,36 (3,13-4,14) A**	**4,67 (3,47-4,11) A**	**4,07 (3.40-3,54) A**	**3,33 (3,27-3,18) A**
Power input Cooling	Nominal (Min - Max)	kW	0,47 (0,240-0,580)	0,535 (0,245-0,730)	0,860 (0,250-1,130)	1,26 (0,260-1,570)
Heating capacity	Nominal (Min - Max)	kW	2,80 (0,75-4,00)	3,40 (0,85-5,00)	4,00 (0,85-6,00)	5,30 (0,85-6,80)
	Nominal (Min - Max)	kCal/h	2.410 (650-3.440)	2.920 (730-4.300)	3.440 (730-5.160)	4.560 (730-5850)
Heating capacity at -7°C	Nominal	kW	2,35	2,88	3,46	3,94
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,41 (3,26-3,92) A**	**4,63 (3,54-3,85) A**	**4,21 (3,47-3,51) A**	**3,68 (3,33-3,51) A**
Power input Heating	Nominal (Min - Max)	kW	0,635 (0,23-1,02)	0,735 (0,24-1,30)	0,950 (0,245-1,71)	1,44 (0,255-1,940)
Annual Energy Consumption [2]		kWh	235	268	430	630
INDOOR UNIT						
Air Volume	Cooling / Heating	m³/h	654 / 684	678 / 702	750 / 768	750 / 804
Moisture removal volume		l/h	1,3	1,5	2,0	2,4
Sound pressure Level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	37 / 24 / 20	39 / 25 / 20	42 / 28 / 20	43 / 31 / 25
	Heating (Hi / Lo / S-Lo)	dB(A)	38 / 25 / 20	40 / 27 / 20	42 / 33 / 20	43 / 35 / 29
Sound power Level	Cooling (Hi)	dB	53	55	58	59
	Heating (Hi)	dB	54	56	58	59
Dimensions	H x W x D	mm	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204
Net weight		kg	9	9	9	9
Air purifier filter			Patrol + E-ion	Patrol + E-ion	Patrol + E-ion	Patrol + E-ion
OUTDOOR UNIT						
Power source		V	230	230	230	230
Connection		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Current Cooling	Nominal	A	2,2	2,5	4,0	5,7
Current Heating	Nominal	A	3,0	3,4	4,4	6,6
Max. current		A	4,7	5,8	7,8	9,0
Air Volume	Cooling / Heating	m³/h	2.034 / 2.034	1.788 / 1.788	1.860 / 1.860	1.884 / 1.884
Sound pressure Level [3]	Cooling (Hi)	dB(A)	45	46	48	49
	Heating (Hi)	dB(A)	46	47	50	51
Sound power Level	Cooling (Hi)	dB	60	61	63	64
	Heating (Hi)	dB	61	62	65	66
Dimensions [4]	H x W x D	mm	540 x 780 x 289	540 x 780 x 289	540 x 780 x 289	540 x 780 x 289
Net weight		kg	33	34	34	34
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)	1/2" (12,70)
Refrigerant Loading	R410A	kg	0,830	0,950	0,980	1,01
Elevation difference (in / out) [5]	Max	m	15	15	15	15
Piping length	Min / Max	m	3-15	3-15	3-15	3-15
Piping length without refrigerant increase	Max	m	7,5	7,5	7,5	7,5
Additional gas		g/m	20	20	20	20
Operating range [3]	Cooling Min / Max	°C	+5 / +43	+5 / +43	+5 / +43	+5 / +43
	Heating Min / Max	°C	-5 / +24	-5 / +24	-5 / +24	-5 / +24

Specifications subject to change without notice

TECHNICAL FOCUS

- **NEW!** MAXIMUM EFFICIENCY AND COMFORT WITH ECONAVI
- EXCLUSIVE WHITE DESIGN
- NEW GENERATION OF E-ION AIR PURIFYING SYSTEM WITH 24-HR PATROL SENSOR
- MILD DRY COOLING: PREVENT A RAPID DECREASE IN ROOM HUMIDITY
- SUPER QUIET! ONLY 20 dB, EQUIVALENT TO NIGHT-TIME IN THE COUNTRY (E7, E9 AND E12)
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE

GLOBAL REMARKS	Rating conditions	Cooling	Heating
	Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
	Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with MKE units.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-E7-MKE // KIT-E9-MKE // KIT-E12-MKE // KIT-E15-MKE

HEALTHY AIR
- E-ion plus air purifying system
- Patrol sensor to detect and eliminate contaminants
- Air conditioner and purifier with simultaneous or independent operation
- Mild Dry Cooling operation mode for increased comfort and prevention of skin moisture loss

ENERGY EFFICIENCY AND ECOLOGY
- Maximum efficiency Inverter system, for bigger savings
- **NEW!** -30% consumption with ECONAVI on heat pump (-20% on cooling mode)
- R410A refrigerant gas

COMFORT
- Super Quiet mode (from 20dB)
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE
- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- 15 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-E7MKE CU-E12MKE
CU-E9MKE CU-E15MKE

A class energy saving INVERTER+

WALL MOUNTED ETHEREA // INVERTER+ // WHITE

NEW ETHEREA WITH ECONAVI SENSOR, MORE EFFICIENT, MORE COMFORT, MORE DESIGN, MORE HEALTHY AIR
ECONAVI sensor determine the human activity level and the position in the room and adjust the air flow orientation for maximum comfort and maximum savings. With ECONAVI, you can save up to 30%.
Furthermore, Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with ECONAVI. More efficiency for bigger savings!
Etherea has an advanced air purifying system with the new Patrol Sensor to detect and eliminate contaminants.
Etherea is also able to prevent rapid decreases in room humidity with the new mild dry cooling system which increases comfort, especially when sleeping with the air conditioning running.

30% savings ECONAVI

improved comfort AUTOCOMFORT

quality air control 24 h PATROL SENSOR

pure air system e-ION PLUS

perfect humidity control MILD DRY

Maintains a Relative Humidity up to 10% higher than cooling operation. Ideal when sleeping with the air conditioner on.

NEW 2011

ETHEREA

OPTIONAL WIRED REMOTE CONTROL CZ-RD514C

INCLUDED WITH THE INDOOR UNIT

KIT			KIT-E18-MKE	KIT-E21-MKE	KIT-E24-MKE	KIT-E28-MKE
Indoor			CS-E18MKEW	CS-E21MKEW	CS-E24MKES	CS-E28MKES
Outdoor			CU-E18MKE	CU-E21MKE	CU-E24MKE	CU-E28MKE
Cooling capacity	Nominal (Min - Max)	kW	5,00 (0,98-6,00)	6,30 (0,98-7,10)	6,80 (0,98-8,10)	7,65 (0,98-8,60)
	Nominal (Min - Max)	kCal/h	4.300 (840-5.160)	5.420 (840-6.110)	5.850 (840-6.970)	6580 (840-7400)
EER [1]	Nominal (Min - Max)	Energy Saving	3,40 (3,50-2,96) A	2,85 (3,50-2,80) C	3,21 (2,58-3,00) A	3,01 (2,58-2,92) B
Power input Cooling	Nominal (Min - Max)	kW	1,47 (0,28-2,03)	2,21 (0,28-2,54)	2,12 (0,38-2,7)	2,54 (0,38-2,95)
Heating capacity	Nominal (Min - Max)	kW	5,80 (0,98-8,00)	7,20 (0,98-8,50)	8,60 (0,98-9,90)	9,60 (0,98-11,00)
	Nominal (Min - Max)	kCal/h	4990 (840-6.880)	6.190 (840-7.310)	7.400 (840-8.510)	8.260 (840-9460)
Heating capacity at -7°C	Nominal	kW	4,98	5,24	6,13	6,77
COP [1]	Nominal (Min - Max)	Energy Saving	3,77 (2,88-3,08) A	3,43 (2,88-3,09) B	3,23 (2,18-3,09) C	2,91 (2,18-2,93) D
Power input Heating	Nominal (Min - Max)	kW	1,54 (0,34-2,60)	2,10 (0,34-2,75)	2,66 (0,45-3,20)	3,30 (0,45-3,75)
Annual Energy Consumption [2]		kWh	735	1.105	1.060	1.270
INDOOR UNIT						
Air Volume	Cooling / Heating	m³/h	978 / 1.074	1.038 / 1.110	1.104 / 1.170	1.158 / 1.206
Moisture removal volume		l/h	2,8	3,5	3,9	4,5
Sound pressure Level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	44 / 37 / 34	45 / 37 / 34	47 / 38 / 35	49 / 38 / 35
	Heating (Hi / Lo / S-Lo)	dB(A)	44 / 37 / 34	45 / 37/ 34	47 / 38 / 35	48 / 38 / 35
Sound power Level	Cooling (Hi)	dB	60	61	63	65
	Heating (Hi)	dB	60	61	63	64
Dimensions	H x W x D	mm	290 x 1.070 x 235	290 x 1.070 x 235	290 x 1.070 x 235	290 x 1.070 x 235
Net weight		kg	12	12	12	12
Air purifier filter			Patrol + E-ion	Patrol + E-ion	Patrol + E-ion	Patrol + E-ion
OUTDOOR UNIT						
Power source		V	230	230	230	230
Connection		mm²	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5
Current Cooling	Nominal	A	6,6	9,9	9,7	11,5
Current Heating	Nominal	A	6,9	9,4	12,1	15
Max. current		A	11,4	12,1	14,6	15,6
Air Volume	Cooling / Heating	m³/h	2.352 / 2.274	2.502 / 2.424	3.012 / 3.012	3.270 / 3.270
Sound pressure Level [3]	Cooling (Hi)	dB(A)	47	48	52	53
	Heating (Hi)	dB(A)	47	49	52	53
Sound power Level	Cooling (Hi)	dB	61	62	66	67
	Heating (Hi)	dB	61	63	66	67
Dimensions [4]	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	795 x 875 x 320	795 x 875 x 320
Net weight		kg	45	46	65	66
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	1/2" (12,70)	1/2" (12,70)	5/8" (15,88)	5/8" (15,88)
Refrigerant Loading	R410A	kg	1,122	1,28	1,70	1,80
Elevation difference (in/out) [5]	Max	m	15	15	20	20
Piping length	Min / Max	m	3-20	3-20	3-30	3-30
Piping length without refrigerant increase	Max	m	7,5	7,5	10	10
Additional gas		g/m	20	20	30	30
Operating range [3]	Cooling Min / Max	°C	+5 / +43	+5 / +43	+16 / +43	+16 / +43
	Heating Min / Max	°C	-5 / +24	-5 / +24	-5 / +24	-5 / +24

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GLOBAL REMARKS

Rating conditions	Cooling	Heating
Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with MKE units.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-E18-MKE // KIT-E21-MKE // KIT-E24-MKE // KIT-E28-MKE

HEALTHY AIR
- E-ion plus air purifying system
- Patrol sensor to detect and eliminate contaminants
- Air conditioner and purifier with simultaneous or independent operation
- Mild Dry Cooling operation mode for increased comfort and prevention of skin moisture loss

ENERGY EFFICIENCY AND ECOLOGY
- Maximum efficiency Inverter system, for bigger savings
- **NEW!** -30% consumption with ECONAVI on heat pump (-20% on cooling mode)
- R410A refrigerant gas

COMFORT
- Super Quiet mode
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE
- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- 20 m maximum connection distance (30 m for E24 and E28)
- 15 m maximum elevation difference (20 m for E24 and E28)
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-E18MKE
CU-E21MKE

CU-E24MKE
CU-E28MKE

Specifications subject to change without notice

A class energy saving INVERTER+

WALL MOUNTED ETHEREA // INVERTER+

NEW ETHEREA WITH ECONAVI, MORE EFFICIENT, MORE COMFORT, MORE DESIGN, MORE HEALTHY AIR
ECONAVI's sensor technology uses factors such as speed, frequency and temperature to determine the human activity level in the room for maximum comfort and maximum savings. With ECONAVI, you can save up to 30%. Furthermore, Etherea is more efficient than ever with 64% less consumption for the non Inverter model on heat pump mode, and can reach 71% total savings when used with ECONAVI. More efficiency for bigger savings!
Etherea has an advanced air purifying system with the new Patrol Sensor to detect and eliminate contaminants. Etherea is also able to prevent rapid decreases in Room humidity with the new mild dry cooling system which increases comfort, especially when sleeping with the air conditioning running.

30% savings ECONAVI

improved comfort AUTOCOMFORT

quality air control 24 h PATROL SENSOR

pure air system e-ION PLUS

perfect humidity control MILD DRY

Maintains a Relative Humidity up to 10% higher than cooling operation. Ideal when sleeping with the air conditioner on.

silent air 20 dB SUPER QUIET

FOR XE7, E7, XE9, E9, XE12 AND E12

down to -15ºC in heating mode OUTDOOR TEMPERATURE

NEW 2011

ETHEREA

CS-XE7MKEW // CS-XE9MKEW // CS-XE12MKEW // CS-XE15MKE-3

INCLUDED WITH THE INDOOR UNIT

SILVER KIT			KIT-XE7-MKE-3	KIT-XE9-MKE-3	KIT-XE12-MKE-3	KIT-XE15-MKE-3
Indoor			CS-XE7MKEW	CS-XE9MKEW	CS-XE12MKEW	CS-XE15MKE-3
Outdoor			CU-E7MKE-3	CU-E9MKE-3	CU-E12MKE-3	CU-E15MKE-3
WHITE KIT			KIT-E7-MKE-3	KIT-E9-MKE-3	KIT-E12-MKE-3	KIT-E15-MKE-3
Indoor			CS-E7MKEW	CS-E9MKEW	CS-E12MKEW	CS-E15MKEW-3
Outdoor			CU-E7MKE-3	CU-E9MKE-3	CU-E12MKE-3	CU-E15MKE-3
Cooling capacity	Nominal (Min - Max)	kW	2,05 (0,75-2,40)	2,50 (0,85-3,00)	3,50 (0,85-4,00)	4,20 (0,98-5,00)
	Nominal (Min - Max)	kCal/h	1.760 (650-2.060)	2.150 (730-2.580)	3.010 (730-3.440)	3.610 (840-4.300)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,36 (3,13-4,14) A**	**4,67 (3,47-4,11) A**	**3,87 (3,40-3,39) A**	**3,44 (3,50-3,13) A**
Power input Cooling	Nominal (Min - Max)	kW	0,47 (0,24-0,58)	0,535 (0,245-0,730)	0,905 (0,250-1,180)	1,22 (0,28-1,60)
Heating capacity	Nominal (Min - Max)	kW	2,80 (0,75-4,00)	3,40 (0,85-5,00)	4,40 (0,85-6,70)	5,40 (0,98-7,10)
	Nominal (Min - Max)	kCal/h	2.410 (650-3.440)	2.920 (730-4.300)	3.780 (730-5.760)	4.640 (840-6110)
Heating capacity at -7°C	Nominal	kW	2,35	2,88	3,75	4,10
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,41 (3,26-3,92) A**	**4,63 (3,54-3,85) A**	**4,04 (3,47-3,47) A**	**3,70 (2,88-3,21) A**
Power input Heating	Nominal (Min - Max)	kW	0,635 (0,23-1,02)	0,735 (0,240-1,30)	1,09 (0,245-1,93)	1,46 (0,340-2,210)
Annual Energy Consumption [2]		kWh	235	268	453	610
INDOOR UNIT						
Air Volume	Cooling / Heating	m³/h	654 / 684	678 / 702	750 / 768	750 / 804
Moisture removal volume		l/h	1,3	1,5	2,0	2,4
Sound pressure Level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	37 / 24 / 20	39 / 25 / 20	42 / 28 / 20	43 / 32 / 29
	Heating (Hi / Lo / S-Lo)	dB(A)	38 / 25 / 20	40 / 27 / 20	42 / 33 / 20	43 / 35 / 29
Sound power Level	Cooling (Hi)	dB	53	55	58	59
	Heating (Hi)	dB	54	56	58	59
Dimensions	H x W x D	mm	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204
Net weight		kg	9	9	9	9
Air purifier filter			Patrol + E-ion	Patrol + E-ion	Patrol + E-ion	Patrol + E-ion
OUTDOOR UNIT						
Power source		V	230	230	230	230
Connection		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Current (Nominal)	Cooling / Heating	A	2,2 / 3,0	2,5 / 3,4	4,1 / 5,1	5,5 / 6,6
Max. current		A	4,7	5,8	8,9	9,7
Air Volume	Cooling / Heating	m³/h	2.034 / 2.034	1.788 / 1.788	1.860 / 1.860	2.052 / 1.980
Sound pressure Level [3]	Cooling / Heating (Hi)	dB(A)	45 / 46	46 / 47	48 / 50	46 / 46
Sound power Level	Cooling / Heating (Hi)	dB	60 / 61	61 / 62	63 / 65	61 / 61
Dimensions [4]	H x W x D	mm	540 x 780 x 289	540 x 780 x 289	540 x 780 x 289	695 x 875 x 320
Net weight		kg	33	34	34	45
Piping connections	Liquid pipe	inch (mm)	1/4'' (6,35)	1/4'' (6,35)	1/4'' (6,35)	1/4'' (6,35)
	Gas pipe	inch (mm)	3/8'' (9,52)	3/8'' (9,52)	3/8'' (9,52)	1/2'' (12,70)
Refrigerant Loading	R410A	kg	0,830	0,950	0,970	1,04
Elevation difference (in/out) [5]	Max	m	15	15	15	15
Piping length	Min / Max	m	3-15	3-15	3-15	3-15
Piping length without refrigerant increase	Max	m	7,5	7,5	7,5	7,5
Additional gas		g/m	20	20	20	20
Operating range [3]	Cooling Min / Max	°C	+5 / +43	+5 / +43	+5 / +43	+5 / +43
	Heating Min / Max	°C	-15 / +24	-15 / +24	-15 / +24	-15 / +24

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- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE

CS-E7MKEW // CS-E9MKEW // CS-E12MKEW // CS-E15MKE-3

GLOBAL REMARKS	Rating conditions	Cooling	Heating
	Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
	Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with MKE units.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-XE7-MKE-3 // KIT-XE9-MKE-3 // KIT-XE12-MKE-3 // KIT-XE15-MKE-3 // KIT-E7-MKE-3 // KIT-E9-MKE-3 // KIT-E12-MKE-3 // KIT-E15-MKE-3

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- Patrol sensor to detect and eliminate contaminants
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COMFORT
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- Powerful mode
- Uniform dispersion of airflow
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EASE OF USE
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- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
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EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- 15 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-E7MKE-3
CU-E9MKE-3

CU-E12MKE-3

CU-E15MKE-3

A class energy saving INVERTER

WALL MOUNTED RE TYPE // STANDARD INVERTER

RE:Inverter models are powerful and efficient and are always there when you need them. Furthermore, with the Alleru-buster anti allergic filter, you can always enjoy the best quality air, without viruses, moulds and bacteria.

prevention allergy filter — ALLERU-BUSTER

relaxing breeze effect — SOFT BREEZE

silent air 22 dB — SUPER QUIET

FOR RE9 AND RE12

CS-RE9JKE-1 // CS-RE12JKE-1 // CS-RE15JKE-1

FOR RE9, RE12 AND RE15. INCLUDED WITH THE INDOOR UNIT

FOR RE18 AND RE24. INCLUDED WITH THE INDOOR UNIT

KIT			KIT-RE9-JKE-1	KIT-RE12-JKE-1	KIT-RE15-JKE-1	KIT-RE18-JKE-1	KIT-RE24-JKE-1
Indoor			**CS-RE9JKE-1**	**CS-RE12JKE-1**	**CS-RE15JKE-1**	**CS-RE18JKE-1**	**CS-RE24JKE-1**
Outdoor			**CU-RE9JKE-1**	**CU-RE12JKE-1**	**CU-RE15JKE-1**	**CU-RE18JKE-1**	**CU-RE24JKE-1**
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,90-3,00)	3,50 (0,90-3,90)	4,20 (1,00-4,60)	5,00 (0,90-6,00)	6,80 (0,90-8,10)
	Nominal (Min - Max)	kCal/h	2.150 (770-2.580)	3.010 (770-3.350)	3.610 (860-3960)	4.300 (770-5.160)	5.850 (770-6.970)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**3,57 (4,74-3,00) A**	**3,47 (5,29-3,25) A**	**3,33 (4,76-2,78) A**	**3,40 (4,19-2,96) A**	**3,21 (2,57-3,00) A**
Power input Cooling	Nominal (Min - Max)	kW	0,70 (0,19-1,00)	1,01 (0,17-1,2)	1,26 (0,21-1,65)	1,47 (0,215-2,03)	2,12 (0,35-2,70)
Heating capacity	Nominal (Min - Max)	kW	3,30 (0,90-4,10)	4,25 (0,90-5,10)	5,00 (0,90-6,80)	5,80 (0,90-8,00)	8,60 (0,90-9,90)
	Nominal (Min - Max)	kCal/h	2.840 (770-3.520)	3.660 (770-4.390)	4.300 (770-5848)	4.990 (770-6.880)	7.400 (770-8.510)
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,02 (5,29-3,57) A**	**3,79 (6,00-3,49) A**	**3,61 (4,28-2,98) A**	**3,77 (3,67-3,08) A**	**3,23 (2,50-3,09) C**
Power input Heating	Nominal (Min - Max)	kW	0,82 (0,17-1,15)	1,12 (0,15-1,46)	1,385(0,21-2,280)	1,54 (0,245-2,60)	2,66 (0,36-3,20)
Annual Energy Consumption [2]		kWh	350	505	630	735	1.060
INDOOR UNIT							
Power source		V	230 (Via outdoor)	230 (Via outdoor)	230 (Via outdoor)	230 (Via outdoor)	230 (Via outdoor)
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5
Current Cooling	Nominal	A	3,30	4,7	6,00	6,7	9,7
Current Heating	Nominal	A	3,70	5,2	6,30	7,0	12,1
Max. current		A	5,10	6,80	10,5	11,7	14,6
Air Volume	Cooling / Heating	m^3/h	750 / 750	756 / 798	840 / 936	978 / 1.074	1.104 / 1.170
Moisture removal volume		l/h	1,4	2,0	2,4	2,8	3,9
Sound pressure Level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	42 / 27 / 22	42 / 30 / 22	46 / 31 / 29	44 / 37	47 / 38
	Heating (Hi / Lo / S-Lo)	dB(A)	42 / 27 / 25	42 / 33 / 25	46 / 34 / 28	44 / 37	47 / 38
Sound power Level	Cooling (Hi)	dB	58	58	62	60	63
	Heating (Hi)	dB	58	58	62	60	63
Dimensions	H x W x D	mm	290 x 848 x 204	290 x 848 x 204	290 x 848 x 204	290 x 1.070 x 235	290 x 1.070 x 235
Net weight		kg	9	9	9	12	12
Air purifier filter			Alleru-buster filter	Alleru-buster filter	Alleru-buster filter	Alleru-buster filter	Alleru-buster filter
OUTDOOR UNIT							
Air Volume	Cooling / Heating	m^3/h	1.734 / 1.734	1.830 / 1.830	1.872 / 1.794	2.400 / 2.316	3.012 / 3.012
Sound pressure Level [3]	Cooling (Hi)	dB(A)	47	48	50	47	52
	Heating (Hi)	dB(A)	48	50	51	47	52
Sound power Level	Cooling (Hi)	dB	63	64	66	61	66
	Heating (Hi)	dB	64	66	67	61	66
Dimensions [4]	H x W x D	mm	540 x 780 x 289	540 x 780 x 289	540 x 780 x 289	750 x 875 x 345	795 x 875 x 320
Net weight		kg	24	28	36	48	65
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	1/2" (12,70)	1/2" (12,70)	5/8" (15,88)
Refrigerant Loading	R410A	kg	0,85	0,970	1,00	1,15	1,70
Elevation difference (in/out) [5]	Max	m	5	5	5	15	20
Piping length	Min / Max	m	3-15	3-15	3-15	3-20	3-30
Piping length without refrigerant increase	Max	m	7,5	7,5	7,5	10	10
Additional gas		g/m	20	20	20	20	30
Operating range [3]	Cooling Min / Max	°C	+5 / +43	+5 / +43	+5 / +43	+5 / +43	+16 / +43
	Heating Min / Max	°C	-5 / +24	-5 / +24	-5 / +24	-5 / +24	-5 / +24

Specifications subject to change without notice

TECHNICAL FOCUS

- COMPLETE LINE-UP OF STANDARD INVERTER MODELS
- QUIETER INDOOR UNITS
- HIGH ENERGY SAVINGS
- REFRESHING AIRFLOW WITH RELAXING BREEZE EFFECT
- LONG CONNECTION DISTANCE (FROM 15 M UP TO 30 M)

CS-RE18JKE-1 // CS-RE24JKE-1

GLOBAL REMARKS	Rating conditions	Cooling	Heating
	Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
	Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with JKE-1 units.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-RE9-JKE-1 // KIT-RE12-JKE-1 // KIT-RE15-JKE-1 // KIT-RE18-JKE-1 // KIT-RE24-JKE-1

HEALTHY AIR
- Odour-removing function
- Anti-mould filter

ENERGY, EFFICIENCY AND ECOLOGY
- Inverter system
- R410A refrigerant gas

COMFORT
- Refreshing airflow with relaxing breeze effect (only for RE9, RE12 and RE15)
- Super Quiet mode (only for RE9, RE12 and RE15)
- Powerful mode (only for RE9 and RE12 and RE15)
- Automatic vertical airflow control
- Hot start mode
- Automatic restart
- Simple change over

EASE OF USE
- 12-hr timer (only for RE9, RE12 and RE15)
- 24-hr timer (only for RE18 and RE24)
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE
- 15 m maximum connection distance (20 m for RE18 and 30 m for RE24)
- Removable, washable panel
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-RE9JKE-1
CU-RE12JKE-1

CU-RE15JKE-1

CU-RE18JKE-1

CU-RE24JKE-1

A class energy saving INVERTER+

WALL MOUNTED TYPE // INVERTER+ // -15ºC

Complete line-up of air purifying systems with high efficiency even at -15ºC! This wall-mounted air conditioning is especially designed for professional applications such as computer rooms where cooling inside the room is necessary even when the outside temperature is low. Furthermore this air conditioner has an automatic changeover system, in order to maintain the inside temperature even when sharp outside temperature changes occur.

ion generator

prevention allergy filter — ALLERU-BUSTER

silent air 23 dB — SUPER QUIET

FOR E9

down to -15ºC in heating mode — OUTDOOR TEMPERATURE

down to -15ºC in cooling mode — OUTDOOR TEMPERATURE

CS-E9HKEA // CS-E12HKEA // CS-E15HKEA

INCLUDED WITH THE INDOOR UNIT

KIT			KIT-E9-HKEA	KIT-E12-HKEA	KIT-E15-HKEA	KIT-E18-HKEA	KIT-E21-HKEA
Indoor			**CS-E9HKEA**	**CS-E12HKEA**	**CS-E15HKEA**	**CS-E18HKEA**	**CS-E21HKEA**
Outdoor			**CU-E9HKEA**	**CU-E12HKEA**	**CU-E15HKEA**	**CU-E18HKEA**	**CU-E21HKEA**
Cooling capacity	Nominal (Min - Max)	kW	2,60 (0,60-3,00)	3,50 (0,60-4,00)	4,40 (0,90-5,00)	5,30 (0,90-6,00)	6,30 (0,90-7,10)
	Nominal (Min - Max)	kCal/h	2.240 (690-2.580)	3.010 (690-3.440)	3.780 (690-4.300)	4.560 (770-5.160)	5.420 (770-6.110)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,41 (5,00-4,00) A**	**3,80 (5,00-3,39) A**	**3,21 (4,19-3,13) A**	**3,21 (4,19-2,93) A**	**2,85 (4,19-2,8) C**
Power input Cooling	Nominal (Min - Max)	kW	0,59 (0,12-0,75)	0,92 (0,12-1,18)	1,37 (0,215-1,6)	1,65 (0,215-2,05)	2,21 (0,215-2,54)
Heating capacity	Nominal (Min - Max)	kW	3,60 (0,60-5,40)	4,80 (0,60-6,60)	5,50 (0,90-7,10)	6,60 (0,90-8,00)	7,20 (0,90-8,50)
	Nominal (Min - Max)	kCal/h	3.100 (520-4.640)	4.130 (520-5.680)	4.730 (770-6.110)	5.680 (770-6.880)	6.190 (770-7.310)
Heating capacity at -7°C	Nominal	kW	3,13	3,86	3,98	4,98	5,24
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,26 (5,22-3,97) A**	**3,81 (5,22-3,57) A**	**3,50 (3,67-3,16) B**	**3,69 (3,67-3,02) A**	**3,43 (3,67-3,09) B**
Power input Heating	Nominal (Min - Max)	kW	0,845 (0,115-1,36)	1,26 (0,115-1,85)	1,57 (0,245-2,25)	1,79 (0,245-2,65)	2,10 (0,245-2,75)
Annual Energy Consumption [2]		kWh	295	460	685	825	1.105
INDOOR UNIT							
Power source		V	230	230	230	230	230
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5
Current Cooling	Nominal	A	2,9	4,3	6,3	7,5	9,9
Current Heating	Nominal	A	4,0	5,8	7,1	8,1	9,3
Max. current		A	6,4	8,4	10,2	11,9	12,6
Air Volume	Cooling / Heating	m^3/h	576 / 630	642 / 672	660 / 708	912 / 1.002	972 / 1.038
Moisture removal volume		l/h	1,6	2,0	2,4	2,9	3,5
Sound pressure Level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	39 / 26 / 23	42 / 29 / 26	43 / 32 / 29	44 / 37 / 34	45 / 37 / 34
	Heating (Hi / Lo / S-Lo)	dB(A)	40 / 27 / 24	42 / 33 / 30	43 / 35 / 32	44 / 37 / 34	45 / 37 / 34
Sound power Level	Cooling (Hi)	dB	50	53	54	57	58
	Heating (Hi)	dB	51	53	54	57	58
Dimensions	H x W x D	mm	280 x 799 x 183	280 x 799 x 183	280 x 799 x 183	275 x 998 x 230	275 x 998 x 230
Net weight		kg	9	9	9	11	11
Air purifier filter			Alleru-buster filter + Ion	Alleru-buster filter + Ion	Alleru-buster filter + Ion	Alleru-buster filter + Ion	Alleru-buster filter + Ion
OUTDOOR UNIT							
Air Volume	Cooling / Heating	m^3/h	1.788 / 1.788	1.860 / 1.860	2.910 / 2.808	2.400 / 2.400	2.568/ 2.490
Sound pressure Level [3]	Cooling (Hi)	dB(A)	46	48	46	47	48
	Heating (Hi)	dB(A)	47	50	46	47	49
Sound power Level	Cooling (Hi)	dB	59	61	59	60	61
	Heating (Hi)	dB	60	63	59	60	62
Dimensions [4]	H x W x D	mm	540 x 780 x 289	540 x 780 x 289	750 x 875 x 345	750 x 875 x 345	750 x 875 x 345
Net weight		kg	35	35	48	49	51
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	1/2" (12,70)	1/2" (12,70)	1/2" (12,70)	1/2" (12,70)
Refrigerant Loading	R410A	kg	0,930	0,970	1,060	1,18	1,29
Elevation difference (in/out) [5]	Max	m	5	5	5	15	15
Piping length	Min / Max	m	3-15	3-15	3-15	3-20	3-20
Piping length without refrigerant increase	Max	m	7,5	7,5	7,5	10	10
Additional gas		g/m	20	20	20	20	20
Operating range [3]	Cooling Min / Max	°C	-15 / +43	-15 / +43	-15 / +43	-15 / +43	-15 / +43
	Heating Min / Max	°C	-10 / +24	-10 / +24	-15 / +24	-15 / +24	-15 / +24

TECHNICAL FOCUS

- HIGHLY EFFICIENT HEAT PUMP AND COOLING EVEN AT -15ºC
- SUPERSONIC AIR PURIFYING SYSTEM WITH ALLERU-BUSTER ANTI ALLERGIC FILTER
- SUPER QUIET! ONLY 23DB (ONLY FOR E9)
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE
- MAXIMUM CONNECTION DISTANCE 15 M (E9, 12, 15), 20M (E18, 21)

CS-E18HKEA // CS-E21HKEA

GLOBAL REMARKS

Rating conditions	Cooling	Heating
Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with MKE units.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-E9-HKEA // KIT-E12-HKEA // KIT-E15-HKEA // KIT-E18-HKEA // KIT-E21-HKEA

HEALTHY AIR
- Refreshing ion generator boosts well-being
- Alleru-buster anti allergic filter
- Soft dry operation mode

ENERGY EFFICIENCY AND ECOLOGY
- Maximum efficiency Inverter system
- R410A refrigerant gas

COMFORT
- Operates in cold/hot mode in temperatures as low as -15ºC (E9, 12: -10 °C)
- Automatically changes from cold to hot depending on inside temperature
- Super Quiet mode
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical and horizontal airflow control
- Hot start mode
- Automatic restart

EASE OF USE
- 24-hr timer
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- Maximum connection distance 15 m (E9, 12, 15), 20m (E18, 21)
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function
- Soft dry operation mode

CU-E9HKEA
CU-E12HKEA

CU-E15HKEA CU-E21HKEA
CU-E18HKEA

prevention allergy filter
ALLERU-BUSTER

WALL-MOUNTED TYPE // STANDARD HEAT PUMP

Powerful heat pump non-Inverter air conditioning. A class efficiency for high savings.

CS-PW9GKE // CS-PW12GKE

FOR PW9 AND PW12. INCLUDED WITH THE INDOOR UNIT

FOR PW18 AND PW24. INCLUDED WITH THE INDOOR UNIT

KIT			KIT-PW9-GKE	KIT-PW12-GKE	KIT-PW18-GKE	KIT-PW24-JKE
Indoor			**CS-PW9GKE**	**CS-PW12GKE**	**CS-PW18GKE**	**CS-PW24JKE**
Outdoor			**CU-PW9GKE**	**CU-PW12GKE**	**CU-PW18GKE**	**CU-PW24JKE**
Cooling capacity	Nominal	kW	2,65	3,4	5,10	7,03
		kCal/h	2.280	2.920	4.386	6.046
EER [1]	**Nominal**	**Energy Saving**	**3,21 A**	**3,22 A**	**2,91 C**	**2,53 E**
Power input Cooling	Nominal	kW	0,825	1,055	1,75	2,78
Heating capacity	Nominal	kW	2,85	3,8	5,30	7,50
		kCal/h	2.450	3.260	4.560	6.450
COP [1]	**Nominal**	**Energy Saving**	**3,63 A**	**3,61 A**	**3,35 C**	**2,87 D**
Power input Heating	Nominal	kW	0,785	1,05	1,58	2,61
Annual Energy Consumption [2]		kWh	413	528	875	1.390
INDOOR UNIT						
Power source		V	230	230	230	230
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5
Current Cooling	Nominal	A	3,9	5,0	7,7	13,1
Current Heating	Nominal	A	3,7	4,9	6,9	12,5
Air Volume	Cooling / Heating	m^3/h	618 / 618	540 / 552	972 / 984	1.044 / 1.092
Moisture removal volume		l/h	1,6	1,9	2,9	4,0
Sound pressure level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	39 / 31	39 / 32	45 / 38	47 / 41
	Heating (Hi / Lo / S-Lo)	dB(A)	29 / 38	39 / 31	43 / 38	46 / 41
Sound power level	Cooling (Hi)	dB	50	50	58	59
	Heating (Hi)	dB	50	50	56	57
Dimensions	H x W x D	mm	250 x 770 x 205	280 x 799 x 183	275 x 998 x 230	275 x 998 x 230
Net weight		kg	7,5	9	11	11
Air purifier filter	Optional		CZ-SA14P Alleru-buster filter	CZ-SA14P Alleru-buster filter	CZ-SA14P Alleru-buster filter	CZ-SA14P Alleru-buster filter
OUTDOOR UNIT						
Air Volume	Cooling / Heating	m^3/h	630	672	1.740	3.102
Sound pressure level [3]	Cooling (Hi)	dB(A)	48	49	55	54
	Heating (Hi)	dB(A)	49	50	55	55
Sound power level	Cooling (Hi)	dB	61	62	70	69
	Heating (Hi)	dB	62	63	70	70
Dimensions [4]	H x W x D	mm	530 x 650 x 230	540 x 780 x 289	540 x 780 x 289	750 x 875 x 345
Net weight		kg	27	30	44	63
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	1/2" (12,70)	5/8" (15,88)
Refrigerant Loading	R410A	kg	0,80	0,98	1,33	1,82
Elevation difference (in/out) [5]	Max	m	5	5	20	20
Piping length	Min / Max	m	3 / 10	3 / 15	3 / 25	3 / 25
Piping length without refrigerant increase	Max	m	7,5	7,5	7,5	7,5
Additional gas		g/m	20	20	20	30
Operating range [3]	Cooling Min / Max	ºC	21 / 43	21 / 43	16 / 43	16 / 43
	Heating Min / Max	ºC	-5 / 24	-5 / 24	-5 / 24	-5 / 24

Specifications subject to change without notice

TECHNICAL FOCUS

- QUIET MODE FOR IMPROVED COMFORT
- ODOUR REMOVING FUNCTION
- EASY TO INSTALL
- R410A REFRIGERANT GAS
- MANUAL AND AUTOMATIC AIRFLOW CONTROL

CS-PW18GKE // CS-PW24JKE

GLOBAL REMARKS

Rating conditions	Cooling	Heating
Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-PW9-GKE // KIT-PW12-GKE // KIT-PW18-GKE // KIT-PW24-JKE

HEALTHY AIR
- Soft dry operation mode
- Odour-removing function
- CZ-SA14P Alleru-buster anti allergic filter (optional)

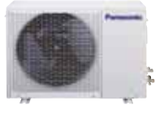
ENERGY EFFICIENCY AND ECOLOGY
- R410A refrigerant gas

COMFORT
- Manual horizontal airflow control
- Automatic vertical airflow control
- Hot start mode
- Automatic restart

EASE OF USE
- 12-hr timer (For PW9 and PW12)
- 24-hr timer (For PW18 and PW24)
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- Maintenance access through the top panel of the outdoor unit

CU-PW9GKE



CU-PW12GKE

CU-PW18GKE

CU-PW24JKE

prevention allergy filter
ALLERU-BUSTER

WALL-MOUNTED TYPE // STANDARD COOLING ONLY

Full line-up of cooling wall-mounted non-Inverter types. Super quiet and with high efficiency
(A class from V7 to V18)

ion generator
ion

CS-V7DKE // CS-V9DKE // CS-V12DKE

FOR V7, V9 AND V12. INCLUDED WITH THE INDOOR UNIT

FOR V18, V24 AND V28. INCLUDED WITH THE INDOOR UNIT

KIT			KIT-V7-DKE	KIT-V9-DKE	KIT-V12-DKE	KIT-V18-DKE	KIT-V24-DKE	KIT-V28-EKE
Indoor			**CS-V7DKE**	**CS-V9DKE**	**CS-V12DKE**	**CS-V18DKE**	**CS-V24DKE**	**CS-V28EKE**
Outdoor			**CU-V7DKE**	**CU-V9DKE**	**CU-V12DKE**	**CU-V18DKE**	**CU-V24DKE**	**CU-V28EKE**
Cooling capacity	Nominal	kW	2,40	3,00	3,68	5,30	7,03	7,91
		kCal/h	2.064	2.580	3.165	4.558	6.046	6.803
EER [1]	**Nominal**	**Energy Saving**	**3,24 A**	**3,21 A**	**3,23 A**	**3,25 A**	**2,70 A**	**3,22 A**
Power input Cooling	Nominal	kW	0,740	0,935	1,140	1,630	2,600	2,460
Annual Energy Consumption [2]		kWh	370	470	570	815	1.300	1.230
INDOOR UNIT								
Power source		V	230	230	230	230	230	230
Connection		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5	4 x 2,5
Current Cooling	Nominal	A	3,4	4,2	5,3	7,3	12,3	11,3
Air Volume		m³/h	468	510	570	888	1.014	1.206
Moisture removal volume		l/h	1,5	1,7	2,1	2,9	4,0	4,6
Sound pressure level [3]	Hi / Lo / S-Lo	dB(A)	33 / 26 / 24	35 / 26 / 24	39 / 29 / 27	42 / 37 / 35	46 / 40 / 38	49 / 44 / 42
Sound power level	Hi	dB	46	48	52	54	59	62
Dimensions	H x W x D	mm	280 x 799 x 183	280 x 799 x 183	280 x 799 x 183	275 x 998 x 230	275 x 998 x 230	340 x 1.150 x 260
Net weight		kg	9	9	9	11	11	18
Air purifier filter			Alleru-buster filter + Ion	Alleru-buster filter + Ion	Alleru-buster filter + Ion	Alleru-buster filter + Ion	Alleru-buster filter + Ion	Alleru-buster filter+ Ion
OUTDOOR UNIT								
Air Volume		m³/h	1.560	1.980	1.848	.520	2.790	3.180
Sound pressure level [3]	Hi	dB(A)	46	48	49	54	54	55
Sound power level	Hi	dB	61	63	64	69	69	70
Dimensions [4]	H x W x D	mm	510 x 650 x 230	540 x 780 x 289	540 x 780 x 289	750 x 875 x 345	750 x 875 x 345	750 x 875 x 345
Net weight		kg	25	31	33	50	59	62
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	1/2" (12,70)	1/2" (12,70)	5/8" (15,88)	5/8" (15,88)
Refrigerant Loading	R410A	kg	0,89	0,93	1,05	1,34	1,47	1,9
Elevation difference (in/out) [5]	Max	m	5	5	5	20	20	20
Piping length	Min / Max	m	3 / 10	3 / 10	3 / 15	3 / 25	3 / 25	3 / 30
Piping length without refrigerant increase	Max	m	7,5	7,5	7,5	7,5	7,5	7,5
Additional gas		g/m	10	10	15	20	30	30
Operating range [3]	Min / Max	ºC	16 / 43	16 / 43	16 / 43	16 / 43	16 / 43	16 / 43

Specifications subject to change without notice

TECHNICAL FOCUS

- SUPER QUIET MODE FOR INCREASED COMFORT
- POWERFUL MODE FOR QUICK TEMPERATURE SETTING
- EASY TO INSTALL
- R410A REFRIGERANT GAS
- MANUAL AND AUTOMATIC AIRFLOW CONTROL

CS-V18DKE // CS-V24DKE

CS-V28EKE

GLOBAL REMARKS

Rating conditions	Cooling	Heating
Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation)

1) EER classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-V7-DKE // KIT-V9-DKE // KIT-V12-DKE // KIT-V18-DKE // KIT-V24-DKE // KIT-V28-EKE

HEALTHY AIR
- CZ-SA14P Supersonic air purifying system with Alleru-buster anti allergic filter

ENERGY EFFICIENCY AND ECOLOGY
- R410A refrigerant gas

COMFORT
- Super Quiet mode
- Powerful mode
- Manual horizontal airflow control
- Automatic vertical airflow control
- Automatic restart

EASE OF USE
- 24-hr timer
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- Maintenance access through the top panel of the outdoor unit

CU-V7DKE
CU-V9DKE

CU-V12DKE

CU-V18DKE
CU-V24DKE

CU-V28EKE

A class energy saving
INVERTER+

FLOOR CONSOLE TYPE // INVERTER+

Console for discreet integration on walls, and for high performances, specifically in heat mode even when the outside temperature is as low as -15ºC.
Double airflow for improved comfort and temperature dispersion: through the top for an efficient cooling mode, through the bottom for quick heating.

silent air 23 dB
SUPER QUIET

down to -15ºC in heating mode
OUTDOOR TEMPERATURE

INCLUDED WITH THE INDOOR UNIT

KIT			KIT-E9-GFEW-1	KIT-E12-GFEW-1	KIT-E18-GFEW-1
Indoor			**CS-E9GFEW**	**CS-E12GFEW**	**CS-E18GFEW**
Outdoor			**CU-E9GFE-1**	**CU-E12GFE-1**	**CU-E18GFE-1**
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,80 - 3,00)	3,50 (0,80 - 3,80)	5,00 (0,90 - 5,60)
		kCal/h	2.150 (690 - 2.580)	3.010 (690 - 3.270)	3.780 (770 - 4.300)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,39 (4,57 - 3,85) A**	**3,63 (4,32 - 3,33) A**	**3,23 (4,57 - 2,93) A**
Power input Cooling	Nominal (Min - Max)	kW	0,57 (0,17 - 0,78)	0,97 (0,18 - 1,14)	1,55 (0,25 - 1,91)
Heating capacity	Nominal (Min - Max)	kW	3,60 (0,80 - 5,00)	4,80 (0,80 - 6,10)	5,80 (0,90 - 7,10)
		kCal/h	3.100 (690 - 4.300)	4.130 (690 - 5.250)	4.730 (770 - 6.110)
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,16 (4,85 - 3,68) A**	**3,64 (4.57 - 3,45) A**	**3,63 (3,46 - 3,02) A**
Power input Heating	Nominal (Min - Max)	kW	0,865 (0,16 - 1,36)	1,320 (0,17 - 1,77)	1,600 (0,26 - 2,35)
Annual Energy Consumption [2]		kWh	285	483	775
INDOOR UNIT					
Air Volume	Cooling / Heating	m³/h	558 / 576	570 / 600	660 / 780
Moisture removal volume		l/h	1,4	2,0	2,8
Sound pressure level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	38 / 27 / 23	39 / 28 / 24	44 / 36 / 32
	Heating (Hi / Lo / S-Lo)	dB(A)	38 / 27 / 23	39 / 27 / 23	44 / 36 / 32
Sound power level	Cooling (Hi)	dB	54	55	60
	Heating (Hi)	dB	54	55	61
Dimensions	H x W x D	mm	600 x 700 x 210	600 x 700 x 210	600 x 700 x 210
Net weight		kg	14	14	14
OUTDOOR UNIT					
Power source		V	230	230	230
Connection		mm²	4 x 1,5	4 x 1,5	4 x 1,5
Current Cooling		A	2,7	4,4	7,0
Current Heating		A	4,05	6,00	7,1
Air Volume	Cooling / Heating	m³/h	1.788 / 1.788	1.860 / 1.860	2.400 / 2.400
Sound pressure level [3]	Cooling (Hi)	dB(A)	46	48	47
	Heating (Hi)	dB(A)	47	50	48
Sound power level	Cooling (Hi)	dB	59	61	60
	Heating (Hi)	dB	60	63	61
Dimensions [4]	H x W x D	mm	540 x 780 x 289	540 x 780 x 289	750 x 875 x 345
Net weight		kg	34	34	49
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	1/2" (12,70)
Refrigerant Loading	R410A	kg	0,965	0,980	1,060
Elevation difference (in/out) [5]	Max	m	5	5	15
Piping length	Min / Max	m	3 / 15	3 / 15	3 / 20
Piping length without refrigerant increase	Max	m	7,5	7,5	10
Additional gas		g/m	20	20	20
Operating range [3]	Cooling Min / Max	ºC	16 / 43	16 / 43	16 / 43
	Heating Min / Max	ºC	-15 / 24	-15 / 24	-15 / 24

Specifications subject to change without notice

TECHNICAL FOCUS

- MORE EFFICIENT THAN EVER FOR LESS CONSUMPTION AND HIGHER SAVINGS
- HEATING MODE DOWN TO -15ºC WITH HIGH EFFICIENCY
- DOUBLE AIRFLOW FOR BETTER EFFICIENCY
- POWERFUL MODE FOR QUICK TEMPERATURE SETTING
- R410A REFRIGERANT GAS

GLOBAL REMARKS

Rating conditions	Cooling	Heating
Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with MKE units.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1 m height in front of the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-E9-GFEW-1 // KIT-E12-GFEW-1 // KIT-E18-GFEW-1

HEALTHY AIR
- Soft dry operation mode
- Odour-removing function

ENERGY EFFICIENCY AND ECOLOGY
- Maximum efficiency Inverter system
- R410A refrigerant gas

COMFORT
- Super Quiet mode
- Powerful mode
- Automatic vertical airflow control
- Hot start mode
- Automatic restart

EASE OF USE
- 24-hr timer
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- Maximum connection distance 15 m (E9, 12), 20m (E18)
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-E9GFE-1
CU-E12GFE-1

CU-E18GFE-1

A class energy saving INVERTER

SINGLE SPLIT FLOOR OR CEILING TYPE // INVERTER

Versatile Floor or Ceiling air conditioning Inverter type. Ideal for restaurants or offices where powerful and efficient air-conditioning is needed.

prevention allergy filter ALLERU-BUSTER

OPTIONAL

INCLUDED WITH THE INDOOR UNIT

KIT			KIT-E15-DTE	KIT-E18-DTE	KIT-E21-DTE
Indoor			**CS-E15DTEW**	**CS-E18DTEW**	**CS-E21DTES**
Outdoor			**CU-E15DBE**	**CU-E18DBE**	**CU-E21DBE**
Cooling capacity	Nominal (Min - Max)	kW	4,15 (0,90 - 4,55)	5,00 (0,90 - 5,40)	5,80 (0,90 - 6,60)
		kCal/h	3.570 (770 - 3.910)	4.300 (770 - 4.640)	4.990 (770 - 5.680)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**3,22** A	**3,01** B	**3,01** B
Power input Cooling	Nominal (Min - Max)	kW	1,29 (0,255 - 1,550)	1,66 (0,255 - 1,890)	1,93 (0,255 - 2,240)
Heating capacity	Nominal (Min - Max)	kW	5,17 (0,90 - 6,30)	6,10 (0,90 - 7,60)	6,80 (0,90 - 8,10)
		kCal/h	4.450 (770 - 5.420)	5.250 (770 - 6.540)	5.850 (770 - 6.970)
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**3,34** C	**3,35** C	**3,42** B
Power input Heating	Nominal (Min - Max)	kW	1,550 (0,260 - 2,050)	1,820 (0,260 - 2,380)	1,990 (0,260 - 2,650)
Annual Energy Consumption [2]		kWh	645	830	965
INDOOR UNIT					
Air Volume	Cooling / Heating	m^3/h	720 / 732	750 / 762	786 / 792
Moisture removal volume		l/h	2,4	2,8	3,2
Sound pressure level [3]	Cooling (Hi / Lo / S-Lo)	dB(A)	45 / 37 / 34	46 / 39 / 36	47 / 41 / 38
	Heating (Hi / Lo / S-Lo)	dB(A)	45 / 33 / 30	47 / 35 / 32	47 / 37 / 34
Sound power level	Cooling (Hi)	dB	58	59	60
	Heating (Hi)	dB	58	60	60
Dimensions	H x W x D	mm	540 x 1.028 x 200	540 x 1.028 x 200	540 x 1.028 x 200
Net weight		kg	17	18	20
Air purifier filter	Optional		CZ-SA14P Alleru-buster filter	CZ-SA14P Alleru-buster filter	CZ-SA14P Alleru-buster filter
OUTDOOR UNIT					
Power source		V	230	230	230
Connection		mm^2	4 x 1,5	4 x 2,5	4 x 2,5
Current Cooling	Nominal	A	6,0	7,5	8,7
Current Heating	Nominal	A	7,1	8,2	9,0
Air Volume	Cooling / Heating	m^3/h	2.910 / 2.910	2.400 / 2.400	2.568 / 2.490
Sound pressure level [3]	Cooling (Hi)	dB(A)	46	47	48
	Heating (Hi)	dB(A)	47	48	49
Sound power level	Cooling (Hi)	dB	59	60	61
	Heating (Hi)	dB	60	61	62
Dimensions [4]	H x W x D	mm	750 x 875 x 345	750 x 875 x 345	750 x 875 x 345
Net weight		kg	48	48	49
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	1/2" (12,70)	1/2" (12,70)	1/2" (12,70)
Refrigerant Loading	R410A	kg	1,23	1,06	1,15
Elevation difference (in/out) [5]	Max	m	15	15	15
Piping length	Min / Max	m	3 / 20	3 / 20	3 / 20
Piping length without refrigerant increase	Max	m	10	10	10
Additional gas		g/m	20	20	20
Operating range [3]	Cooling Min / Max	ºC	16 / 43	16 / 43	16 / 43
	Heating Min / Max	ºC	-5 / 24	-5 / 24	-5 / 24

Specifications subject to change without notice

TECHNICAL FOCUS

- A WIDTH OF ONLY 20CM FOR EASY INSTALLATION EVERYWHERE
- 2 INSTALLATIONS POSSIBLE: ON THE WALL OR ON THE ROOF
- POWERFUL LINE-UP, UP TO 5.8 KW!
- POWERFUL MODE FOR QUICK TEMPERATURE SETTING
- R410A REFRIGERANT GAS
- 20 M CONNECTION DISTANCE, 15 M HEIGHT DIFFERENCE ON THE WHOLE LINE-UP

GLOBAL REMARKS	Rating conditions	Cooling	Heating
	Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
	Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction: JKE units are not compatible with MKE units.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body floor-mounted: 1 m in front of the unit at 1 m height from the floor; ceiling-mounted: 1 m infront and 80 cm below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-E15-DTE // KIT-E18-DTE // KIT-E21-DTE

HEALTHY AIR
- Soft dry operation mode
- Odour-removing function
- CZ-SA14P Alleru-buster anti allergic filter (optional)
- Anti-mould filter

ENERGY EFFICIENCY AND ECOLOGY
- Inverter system
- R410A refrigerant gas

COMFORT
- Super Quiet mode
- Powerful mode
- Automatic vertical airflow control
- Hot start mode
- Automatic restart

EASE OF USE
- 24-hr timer
- User friendly infrared remote control

EASY INSTALLATION AND MAINTENANCE
- Maximum connection distance 20m
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-E15DBE CU-E21DBE
CU-E18DBE

A class energy saving INVERTER+

ETHEREA MULTI SPLIT 2X1 // INVERTER+

WITH THE MULTI SYSTEM, SAVE MORE THAN WITH THE 1X1!

ECONAVI's sensor technology uses factors such as speed, frequency and temperature to determine the human activity level in the room for maximum comfort and maximum savings. With ECONAVI, you can save up to 30%. Cool and stylish, the distinctive, beautiful rounded form is designed to complement today's modern interiors. Etherea has an advanced air purifying system with the new Patrol Sensor to detect and eliminate contaminants. Using a Multi Split 2X1 Inverter+ system with the outdoor unit CU-2E15LBE instead of 2 individual mono split Inverter+ systems, you reduce consumption and thus save more! Up to 10%! Furthermore, using a Multi Split system, you save space on the outdoor unit, making it easier to install in small spaces. The multi system also has a greater difference in elevation and longer tubing, leading to greater flexibility on roof installations.

30% savings ECONAVI | improved comfort AUTOCOMFORT | quality air control 24 h PATROL SENSOR | pure air system e-ION PLUS | down to -15ºC in heating mode OUTDOOR TEMPERATURE

NEW 2011

ETHEREA

CS-XE7MKEW // CS-XE9MKEW // CS-XE12MKEW

INCLUDED WITH THE INDOOR UNIT

SILVER KIT			KIT-2XE77-MBE	KIT-2XE79-MBE	KIT-2XE712-MBE	KIT-2XE99-MBE
Indoor			CS-XE7MKEW	CS-XE7MKEW	CS-XE7MKEW	CS-XE9MKEW
			CS-XE7MKEW	CS-XE9MKEW	CS-XE12MKEW	CS-XE9MKEW
WHITE KIT			**KIT-2E77-MBE**	**KIT-2E79-MBE**	**KIT-2E712-MBE**	**KIT-2E99-MBE**
Indoor			CS-E7MKEW	CS-E7MKEW	CS-E7MKEW	CS-E9MKEW
			CS-E7MKEW	CS-E9MKEW	CS-E12MKEW	CS-E9MKEW
Outdoor			CU-2E15LBE	CU-2E15LBE	CU-2E15LBE	CU-2E15LBE
Cooling capacity	Nominal (Min - Max)	kW	4,00 (1,50 - 5,00)	4,50 (1,50 - 5,20)	4,50 (1,50 - 5,20)	4,50 (1,50 - 5,20)
	Nominal (Min - Max)	kCal/h	3.440 (1.290 - 4.300)	3.870 (1.290 - 4.470)	3.870 (1.290 - 4.470)	3.870 (1.290 - 4.470)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**3,66 (6,00 - 3,70) A**	**3,66 (6,00 - 3,70) A**	**3,66 (6,00 - 3,42) A**	**3,66 (6,00 - 3,42) A**
Power input Cooling	Nominal (Min - Max)	kW	1,09 (0,25 - 1,35)	1,23 (0,25 - 1,52)	1,23 (0,25 - 1,53)	1,23 (0,25 - 1,52)
Heating capacity	Nominal (Min - Max)	kW	5,40 (1,10 - 7,00)	5,40 (1,10 - 7,00)	5,40 (1,10 - 7,0)	5,40 (1,10 - 7,0)
	Nominal (Min - Max)	kCal/h	4.640 (950 - 6.020)	4.640 (950 - 6.020)	4.640 (950 - 6.020)	4.640 (950 - 6.020)
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,62 (5,24 - 4,19) A**	**4,62 (5,24 - 4,19) A**	**4,62 (5,24 - 4,19) A**	**4,62 (4,61 - 4,19) A**
Power input Heating	Nominal (Min - Max)	kW	1,17 (0,21 - 1,67)	1,17 (0,21 - 1,67)	1,17 (0,21 - 1,67)	1,17 (0,21 - 1,67)
Annual Energy Consumption [2]		kWh	545	615	615	615
INDOOR UNIT						
Air Volume	Cooling	m³/h	606	606 (E7) / 606 (E9)	606 (E7) / 654 (E12)	606
Moisture removal volume		l/h	1,3 / 1,3	1,3 (E7) / 1,5 (E12)	1,1 (E7) / 1,6 (E12)	1,5 / 1,5
Sound pressure Level [3]	Cooling and Heating (S-Lo)	dB(A)	26	26	26 (E7) / 29 (E12)	26
Sound power Level	Cooling and Heating (Hi)	dB	56	56	56 (E7) / 60 (E12)	56
Dimensions	H x W x D	mm	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204
Net weight		kg	9	9	9	9
Air purifier filter			Patrol + E-ion	Patrol + E-ion	Patrol + E-ion	Patrol + E-ion
OUTDOOR UNIT						
Power source		V	230	230	230	230
Connection		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Current	Cooling / Heating Nominal	A	5,10 / 5,20	5,75 / 5,20	5,75 / 5,20	5,75 / 5,20
Air Volume	Cooling / Heating	m³/h	1.998 / 1.710	1.998 / 1.710	1.998 / 1.710	1.998 / 1.710
Sound pressure Level [3]	Cooling / Heating (Hi)	dB(A)	47 / 49	47 / 49	47 / 49	47 / 49
Sound power Level	Cooling / Heating (Hi)	dB	62 / 64	62 / 64	62 / 64	62 / 64
Dimensions [4]	H x W x D	mm	540 x 780 (+70) x 289	540 x 780 (+70) x 289	540 x 780 (+70) x 289	540 x 780 (+70) x 289
Net weight		kg	38	38	38	38
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)
Refrigerant Loading	R410A	kg	1,45	1,45	1,45	1,45
Elevation difference (in/out) [5]	Max	m	10	10	10	10
Piping length (total)	Min / Max	m	3 / 30	3 / 30	3 / 30	3 / 30
Piping length (one unit)	Min / Max	m	3 / 20	3 / 20	3 / 20	3 / 20
Piping length without refrigerant increase	Max	m	20	20	20	20
Additional gas		g/m	20	20	20	20
Operating range [3]	Cooling Min / Max	ºC	16 / 43	16 / 43	16 / 43	16 / 43
	Heating Min / Max	ºC	-10 / 24	-10 / 24	-10 / 24	-10 / 24

Specifications subject to change without notice

TECHNICAL FOCUS

- **NEW!** MAXIMUM EFFICIENCY AND COMFORT WITH ECONAVI
- VERY EXCLUSIVE SILVER DESIGN
- NEW GENERATION OF E-ION AIR PURIFYING SYSTEM WITH 24-HR PATROL SENSOR
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE

GLOBAL REMARKS	Rating conditions	Cooling	Heating
	Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
	Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction : CS-E/XE_MKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-2XE77-MBE // KIT-2XE79-MBE // KIT-2XE712-MBE // KIT-2XE99-MBE // KIT-2E77-MBE // KIT-2E79-MBE // KIT-2E712-MBE // KIT-2E99-MBE

HEALTHY AIR
- E-ion plus air purifying system
- Patrol sensor to detect and eliminate contaminants
- Air conditioner and purifier with simultaneous or independent operation

ENERGY EFFICIENCY AND ECOLOGY
- Maximum efficiency Inverter system, for bigger savings
- **NEW!**-30% consumption with ECONAVI on heat pump (-20% on cooling mode)
- R410A refrigerant gas

COMFORT
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE
- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- 30 m maximum connection distance
- 10 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-2E15LBE

A class energy saving INVERTER+

ETHEREA MULTI SPLIT 2X1 // INVERTER+

ETHEREA, A NEW CONCEPT IN AIR CONDITIONERS: AIR PURIFYING SYSTEM, STYLISH DESIGN AND HIGH EFFICIENCY. With the multi system, save more than with the 1x1!

ECONAVI 's sensor technology uses factors such as speed, frequency and temperature to determine the human activity level in the room for maximum comfort and maximum savings. With ECONAVI , you can save up to 30%. Cool and stylish, the distinctive, beautiful rounded form is designed to complement today's modern interiors. Etherea has an advanced air purifying system with the new Patrol Sensor to detect and eliminate contaminants.

Using a Multi Split 2x1 Inverter+ system with the outdoor unit CU-2E18LBE instead of 2 individual mono split Inverter+ systems, you reduce consumption and thus save more! Up to 16%! Furthermore, using a Multi Split system, you save space on the outdoor unit, making it easier to install in small spaces.

The multi system also has a greater difference in elevation and longer tubing, leading to greater flexibility on roof installations.

30% savings ECONAVI | improved comfort AUTOCOMFORT | quality air control 24 h PATROL SENSOR | pure air system e-ION PLUS | down to -15ºC in heating mode OUTDOOR TEMPERATURE

NEW 2011

ETHEREA

CS-XE7MKEW // CS-XE9MKEW // CS-XE12MKEW

INCLUDED WITH THE INDOOR UNIT

SILVER KIT			KIT-2XE99-MKE	KIT-2XE912-MKE	KIT-2XE1212-MKE
Indoor			CS-XE9MKEW	CS-XE9MKEW	CS-XE12MKEW
			CS-XE9MKEW	CS-XE12MKEW	CS-XE12MKEW
WHITE KIT			**KIT-2E99-MKE**	**KIT-2E912-MKE**	**KIT-2E1212-MKE**
Indoor			CS-E9MKEW	CS-E9MKEW	CS-E12MKEW
			CS-E9MKEW	CS-E12MKEW	CS-E12MKEW
Outdoor			CU-2E18LBE	CU-2E18LBE	CU-2E18LBE
Cooling capacity	Nominal (Min - Max)	kW	4,80 (1,50 - 5,20)	5,00 (1,50 - 5,30)	5,20 (1,50 - 5,40)
		kCal/h	4.130 (1.290 - 4.470)	4.300 (1.290 - 4.560)	4.470 (1.290 - 4.640)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**3,66 (6,00 - 3,42) A**	**3,36 (6,00 - 3,44) A**	**3,42 (6,00 - 3,42) A**
Power input Cooling	Nominal (Min - Max)	kW	1,31 (0,25 - 1,52)	1,49 (0,25 - 1,54)	1,52 (0,25 - 1,58)
Heating capacity	Nominal (Min - Max)	kW	5,60 (1,10 - 7,20)	5,60 (1,10 - 7,20)	5,60 (1,10 - 7,20)
		kCal/h	4.820 (950 - 6.190)	4.820 (950 - 6.190)	4.820 (950 - 6.190)
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,48 (5,24 - 4,14) A**	**4,55 (5,24 - 4,19) A**	**4,63 (5,24 - 4,24) A**
Power input Heating	Nominal (Min - Max)	kW	1,25 (0,21 - 1,74)	1,23 (0,21 - 1,72)	1,21 (0,21 - 1,70)
Annual Energy Consumption [2]		kWh	655	745	760
INDOOR UNIT					
Air Volume	Cooling	m^3/h	606	606 (E9) / 654 (E12)	654
Moisture removal volume		l/h	1,5 / 1,5	1,4 (E9) / 1,6 (E12)	1,6 / 1,6
Sound pressure level [3]	Cooling and Heating (S-Lo)	dB(A)	26	26 (E9) / 29 (E12)	29
Sound power level	Cooling and Heating (Hi)	dB	56	56 (E9) / 60 (E12)	60
Dimensions	H x W x D	mm	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204
Net weight		kg	9	9	9
Air purifier filter			Patrol + E-ion	Patrol + E-ion	Patrol + E-ion
OUTDOOR UNIT					
Power source		V	230	230	230
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5
Current	Cooling / Heating (Nominal)	A	6,10 / 5,55	6,95 / 5,45	7,10 / 5,35
Air Volume	Cooling / Heating	m^3/h	2.070 / 1.860	2.070 / 1.860	2.070 / 1.860
Sound pressure level [3]	Cooling / Heating (Hi)	dB(A)	49 / 51	49 / 51	49 / 51
Sound power level	Cooling / Heating (Hi)	dB	64 / 66	64 / 66	64 / 66
Dimensions [4]	H x W x D	mm	540 x 780 (+70) x 289	540 x 780 (+70) x 289	540 x 780 (+70) x 289
Net weight		kg	38	38	38
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)
Refrigerant Loading	R410A	kg	1,45	1,45	1,45
Elevation difference (in/out) [5]	Max	m	10	10	10
Piping length	Total	m	30	30	30
Piping length (one unit)	Min / Max	m	3 / 20	3 / 20	3 / 20
Piping length without refrigerant increase	Max	m	20	20	20
Additional gas		g/m	20	20	20
Operating range [3]	Cooling Min / Max	ºC	16 / 43	16 / 43	16 / 43
	Heating Min / Max	ºC	-10 / 24	-10 / 24	-10 / 24

Specifications subject to change without notice

TECHNICAL FOCUS

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GLOBAL REMARKS	Rating conditions	Cooling	Heating
	Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
	Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction : CS-E/XE_MKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-2XE99-MKE // KIT-2XE912-MKE // KIT-2XE1212-MKE
KIT-2E99-MKE // KIT-2E912-MKE // KIT-2E1212-MKE

HEALTHY AIR
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- Removable, washable panel
- 30 m maximum connection distance
- 10 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-2E18LBE

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Cool and stylish, the distinctive, beautiful rounded form is designed to complement today's modern interiors.

Etherea has an advanced air purifying system with the new Patrol Sensor to detect and eliminate contaminants. Using a Multi Split 3X1 Inverter+ system with the outdoor unit CU-3E18LBE instead of 3 individual mono split Inverter+ systems, you reduce consumption and thus save more! Up to 34%! Furthermore, using a Multi Split system, you save space on the outdoor unit, making it easier to install in small spaces.

The multi system also has a greater difference in elevation and longer tubing, leading to greater flexibility on roof installations.

30% savings ECONAVI | improved comfort AUTOCOMFORT | quality air control 24 h PATROL SENSOR | pure air system e-ION PLUS | down to -15ºC in heating mode OUTDOOR TEMPERATURE

NEW 2011

CS-XE7MKEW // CS-XE9MKEW // CS-XE12MKEW // CS-XE15MKEW

INCLUDED WITH THE INDOOR UNIT

SILVER KIT			KIT-3XE7712-MBE	KIT-3XE7715-MBE
Indoor			CS-XE7MKEW (x2)	CS-XE7MKEW (x2)
			CS-XE12MKEW (x1)	CS-XE15MKEW (x1)
WHITE KIT			**KIT-3E7712-MBE**	**KIT-3E7715-MBE**
Indoor			CS-E7MKEW (x2)	CS-E7MKEW (x2)
			CS-E12MKEW (x1)	CS-E15MKEW (x1)
Outdoor			CU-3E18LBE	CU-3E18LBE
Cooling capacity	Nominal (Min - Max)	kW	5,20 (1,90-7,20)	5,20 (1,80-7,30)
	Nominal (Min - Max)	kCal/h	4.470 (1.630-6.190)	4.470 (1.550-6.280)
EER [1]	Nominal (Min - Max)	Energy Saving	4,30 (5,28 - 3,30) A	4,30 (5,00 - 3,35) A
Power input Cooling	Nominal (Min - Max)	kW	1.21 (0.36-2.18)	1.21 (0.36-2.18)
Heating capacity	Nominal (Min - Max)	kW	6,80 (1,40-8,30)	6,80 (1,60-8,30)
	Nominal (Min - Max)	kCal/h	5.850 (1.200-7.140)	5.850 (1.380-7.140)
COP [1]	Nominal (Min - Max)	Energy Saving	4,63 (4,38 - 3,94) A	4,72 (5,00 - 3,93) A
Power input Heating	Nominal (Min - Max)	kW	1,47 (0,32-2,11)	1,44 (0,32-2,11)
Annual Energy Consumption [2]		kWh	745	720
INDOOR UNIT				
Air Volume	Cooling	m³/h	606 (E7) / 654 (E12)	606 (E7) / 672 (E15)
Moisture removal volume		l/h	1,3 (E7) / 1,8 (E12)	0,8 (E7) / 1,6 (E15)
Sound pressure Level [3]	Cooling (S-Lo)	dB(A)	26 (E7) / 29 (E12)	26 (E7) / 29 (E15)
	Heating (S-Lo)	dB(A)	26 (E7) / 29 (E12)	26 (E7) / 30 (E15)
Sound power Level	Cooling and Heating (Hi)	dB	56 (E7) / 60 (E12)	56 (E7) / 60 (E15)
Dimensions	H x W x D	mm	290 x 870 x 204	290 x 870 x 204
Net weight		kg	9	9
Air purifier filter			Patrol + E-ion	Patrol + E-ion
OUTDOOR UNIT				
Power source		V	230	230
Connection		mm²	4 x 1,5	4 x 1,5
Current	Cooling / Heating Nominal	A	5,3 / 8,2	5,3 / 7,9
Air Volume	Cooling / Heating	m³/h	2.502	2.502
Sound pressure Level [3]	Cooling / Heating (Hi)	dB(A)	46 / 47	46 / 47
Sound power Level	Cooling / Heating (Hi)	dB	60 / 61	60 / 61
Dimensions [4]	H x W x D	mm	795 x 875 (+95) x 320	795 x 875 (+95) x 320
Net weight		kg	71	71
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)
Refrigerent Loading	R410A	kg	2,64	2,64
Elevation difference (in/out) [5]	Max	m	15	15
Piping length (total)	Min / Max	m	3 / 50	3 / 50
Piping length (one unit)	Min / Max	m	3 / 25	3 / 25
Piping length without refrigerant increase	Max	m	30	30
Additional gas		g/m	20	20
Operating range [3]	Cooling Min / Max	ºC	-10 / 46	-10 / 46
	Heating Min / Max	ºC	-15 / 24	-15 / 24

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GLOBAL REMARKS	Rating conditions	Cooling	Heating
	Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
	Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction : CS-E/XE_MKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 95 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-3XE7712-MBE // KIT-3XE7715-MBE
KIT-3E7712-MBE // KIT-3E7715-MBE

HEALTHY AIR
- E-ion plus air purifying system
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EASE OF USE
- Real time clock with dual ON&OFF timer
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- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- 50 m maximum connection distance
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-3E18LBE

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ETHEREA MULTI SPLIT 4X1 // INVERTER+

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Using a Multi Split 4X1 Inverter+ system with the outdoor unit CU-4E23LBE instead of 4 individual mono split Inverter+ systems, you reduce consumption and thus save more! Up to 36%! Furthermore, using a Multi Split system, you save space on the outdoor unit, making it easier to install in small spaces.

The multi system also has a greater difference in elevation and longer tubing, leading to greater flexibility on roof installations.

30% savings ECONAVI | improved comfort AUTOCOMFORT | quality air control 24 h PATROL SENSOR | pure air system e-ION PLUS | down to -15ºC in heating mode OUTDOOR TEMPERATURE

NEW 2011

ETHEREA

CS-XE7MKEW // CS-XE9MKEW // CS-XE12MKEW // CS-XE15MKEW

INCLUDED WITH THE INDOOR UNIT

SILVER KIT			KIT-4XE77712-MBE	KIT-4XE77715-MBE	KIT-4XE77712-MKE	KIT-4XE77715-MKE
Indoor			CS-XE7MKEW (x3)	CS-XE7MKEW (x3)	CS-XE7MKEW (x3)	CS-XE7MKEW (x3)
			CS-XE12MKEW (x1)	CS-XE15MKEW (x1)	CS-XE12MKEW (x1)	CS-XE15MKEW (x1)
WHITE KIT			**KIT-4E77712-MBE**	**KIT-4E77715-MBE**	**KIT-4E77712-MKE**	**KIT-4E77715-MKE**
Indoor			CS-E7MKEW (x3)	CS-E7MKEW (x3)	CS-E7MKEW (x3)	CS-E7MKEW (x3)
			CS-E12MKEW (x1)	CS-E15MKEW (x1)	CS-E12MKEW (x1)	CS-E15MKEW (x1)
Outdoor			CU-4E23LBE	CU-4E23LBE	CU-4E27CBPG	CU-4E27CBPG
Cooling capacity	Nominal (Min - Max)	kW	6,80 (1,90 - 8,80)	6,80 (1,90 - 8,80)	8,00 (2,80 - 8,90)	8,00 (2,80 - 8,90)
		kCal/h	5.850 (1.630 - 7.570)	5.850 (1.630 - 7.650)	6.880 (2.410 - 7.650)	6.880 (2.410 - 7.650)
EER [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,12 (5,59 - 3,56) A**	**4,12 (5,59 - 3,56) A**	**3,76 (5,71 - 3,09) A**	**3,76 (5,71 - 3,20) A**
Power input Cooling	Nominal (Min - Max)	kW	1.65 (0.34 - 2.47)	1.65 (0.34 - 2.47)	2,13 (0,49 - 2,88)	2,10 (0,49 - 2,87)
Heating capacity	Nominal (Min - Max)	kW	8,60 (3,00 - 10,60)	8,60 (3,00 - 10,60)	9,40 (3,40 - 10,50)	9,40 (3,80 - 10,50)
		kCal/h	7.400 (2.580 - 9.120)	7.400 (2.580 - 9.120)	8.080 (2.920 - 9.030)	8.080 (3.270 - 9.030)
COP [1]	**Nominal (Min - Max)**	**Energy Saving**	**4,65 (5,17 - 4,08) A**	**4,67 (5,09 - 4,09) A**	**4,43 (5,76 - 3,30) A**	**4,50 (5,31 - 3,34) A**
Power input Heating	Nominal (Min - Max)	kW	1,85 (0,58 - 2,60)	1,84 (0,59 - 2,59)	2,12 (0,59 - 3,18)	2,09 (0,64 - 3,14)
Annual Energy Consumption [2]		kWh	825	825	1.065	1.055
INDOOR UNIT						
Air Volume	Cooling	m³/h	606 (E7) / 654 (E12)	606 (E7) / 672 (E15)	654 (E7) / 750 (E12)	654 (E7) / 750 (E15)
Moisture removal volume		l/h	0,9 (E7) / 1,5 (E12)	0,9 (E7) / 1,6 (E15)	1,1 (E7) / 1,6 (E12)	1,0 (E7) / 1,8 (E15)
Sound pressure level [3]	Cooling (S-Lo)	dB(A)	26 (E7) / 29 (E12)	26 (E7) / 29 (E15)	26 (E7) / 29 (E12)	26 (E7) / 29 (E15)
	Heating (S-Lo)	dB(A)	26 (E7) / 29 (E12)	26 (E7) / 30 (E15)	26 (E7) / 29 (E12)	26 (E7) / 30 (E15)
Sound power level	Cooling and Heating (Hi)	dB	56 (E7) / 60 (E12)	56 (E7) / 60 (E15)	56 (E7) / 60 (E12)	56 (E7) / 60 (E15)
Dimensions	H x W x D	mm	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204
Net weight		kg	9	9	9	9
Air purifier filter			Patrol + E-ion	Patrol + E-ion	Patrol + E-ion	Patrol + E-ion
OUTDOOR UNIT						
Power source		V	230	230	230	230
Connection		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Current	Cooling /Heating (Nominal)	A	7,40 / 8,60	7,40 / 8,50	9,40 / 9,30	9,30 / 9,20
Air Volume	Cooling / Heating	m³/h	2.550	2.550	2.910	2.910
Sound pressure level [3]	Cooling / Heating (Hi)	dB(A)	48 / 49	48 / 49	48 / 49	48 / 49
Sound power level	Cooling / Heating (Hi)	dB	62 / 63	62 / 63	61 / 62	61 / 62
Dimensions [4]	H x W x D	mm	795 x 875 (+95) x 320	795 x 875 (+95) x 320	908 x 900 x 320	908 x 900 x 320
Net weight		kg	72	72	73	73
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)
Refrigerant Loading	R410A	kg	2,64	2,64	3,10	3,10
Elevation difference (in/out) [5]	Max	m	15	15	15	15
Piping length	Total	m	60	60	70	70
Piping length (one unit)	Min / Max	m	3 / 25	3 / 25	3 / 25	3 / 25
Piping length without refrigerant increase	Max	m	30	30	40	40
Additional gas		g/m	20	20	20	20
Operating range [3]	Cooling Min / Max	ºC	-10 / 46	-10 / 46	16 / 43	16 / 43
	Heating Min / Max	ºC	-15 / 24	-15 / 24	-20 / 24	-20 / 24

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- VERY EXCLUSIVE SILVER DESIGN
- NEW GENERATION OF E-ION AIR PURIFYING SYSTEM WITH 24-HR PATROL SENSOR
- MORE POWERFUL AIRFLOW TO QUICKLY REACH THE DESIRED TEMPERATURE

GLOBAL REMARKS	Rating conditions	Cooling	Heating
	Inside air temperature	27ºC DB / 19ºC WB	20ºC DB
	Outside air temperature	35ºC DB / 24ºC WB	7ºC DB / 6ºC WB

DB: Dry Bulb; WB: Wet Bulb
This model is not suitable to use in heating mode below -5ºC with continuous operation (24h operation).
Connectivity restriction : CS-E/XE_MKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

1) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
2) The annual consumption is calculated by multiplying the input power at 230 V by an avarage of 500 hours per year in cooling mode.
3) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 0,8 meters below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
4) Add 70 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

KIT-4XE77712-MBE // KIT-4XE77715-MBE // KIT-4XE77712-MKE // KIT-4XE77715-MKE KIT-4E77712-MBE // KIT-4E77715-MBE // KIT-4E77712-MKE // KIT-4E77715-MKE

HEALTHY AIR
- E-ion plus air purifying system
- Patrol sensor to detect and eliminate contaminants
- Air conditioner and purifier with simultaneous or independent operation

ENERGY EFFICIENCY AND ECOLOGY
- Maximum efficiency Inverter system, for bigger savings
- **NEW!**-30% consumption with ECONAVI on heat pump (-20% on cooling mode)
- R410A refrigerant gas

COMFORT
- Powerful mode
- Uniform dispersion of airflow
- Automatic vertical airflow control
- Hot start mode, increased comfort on heat pump mode, no cool airflow when process starts
- Automatic restart after power cut

EASE OF USE
- Real time clock with dual ON&OFF timer
- User friendly infrared remote control
- **NEW!** Optional wired weekly timer with 6 settings per day and 42 settings per week
- **NEW!** Connectivity function (indoor unit equipped with PCB port which can be connected to outside network)

EASY INSTALLATION AND MAINTENANCE
- Removable, washable panel
- 70 m maximum connection distance (For CU-4E27CBPG)
- 15 m maximum elevation difference
- Maintenance access through the top panel of the outdoor unit
- Self-diagnosis function

CU-4E23LBE

CU-4E27CBPG

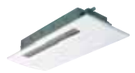
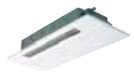
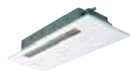
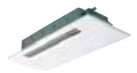
A class energy saving INVERTER+

FREE MULTI

UP TO 4 INDOOR UNITS WITH A SINGLE OUTDOOR UNIT

Up to four different rooms with a single outdoor unit. Free Multi is what we need.
With Free Multi you can take care of 2, 3 or 4 rooms with a single outdoor unit.
With the Free Multi range, your clients will be able to save space at the time of installing the outdoor unit, and they will have more energy efficiency than with various 1x1 systems. They will be able to save up to 30% of energy.
Choose the outdoor units according to the necessities of each of your client's rooms, and calculate which outdoor unit best adapts itself to the combinations of indoor combinations.
The combination table on pages 78, 79, 80 and 81 will help you to select the best option.

INDOOR UNIT CAPACITIES

CAPACITY	7 - 2.0 kW	9/10 - 2.5 kW	9/10 - 2.8 kW	12 - 3.2 kW	15 - 4 kW	18 - 5 kW	21 - 6 kW
SPLIT ETHEREA SILVER OR WHITE INVERTER+	CS-XE7MKEW CS-E7MKEW	CS-XE9MKEW CS-E9MKEW		CS-XE12MKEW CS-E12MKEW	CS-XE15MKEW [1] CS-E15MKEW [1]	CS-XE18MKEW [1] CS-E18MKEW [1]	CS-XE21MKEW [1] CS-E21MKEW [1]
1-WAY CASSETTE INVERTER	 CS-ME7KB1E		 CS-ME10EBE1E	 CS-ME12EBE1E	 CS-ME14EB1E		
LOW STATIC PRESSURE HIDE AWAY INVERTER+		CS-E10KD3EA			CS-E15JD3EA [1]	CS-E18JD3EA [1]	
FLOOR CONSOLE INVERTER+			CS-E9GFEW	CS-E12GFEW		CS-E18GFEW [1]	
FLOOR/CEILING CONSOLE INVERTER+			CS-ME10DTEG		CS-E15DTEW [1]	CS-E18DTEW [1]	
4 WAY 60X60 CASSETTE INVERTER+		CS-E10KB4EA			CS-E15HB4EA [1]	CS-E18HB4EA [1]	CS-E21JB4EA [1]

1) A CZ-MA1P pipe reducer is needed on the E15 and E18, a CZ-MA2P pipe expander is needed on the E21.

POSSIBLE INDOOR UNIT COMBINATIONS

Models		Possible indoor unit combinations	Capacity kW [1]	Refrigerant pipe diameter			Pipe length					Indoor/outdoor unit combinations						
				Indoor unit	Liquid	Gas	Maximum pipe length (1 room)	Maximum pipe length (total)	Max pipe without additional gas refills	Additional gas	Maximum level difference	Capacity	Wall-mounted	Floor console	4 -way Cassette	1 -way Cassette	Floor / ceiling	Ducts
2 Rooms	CU-2E15LBE	A [2]: 7 or 9/10 or 12 B [2]: 7 or 9/10 or 12	4,0-5,6	Room A Room B	1/4" 1/4"	3/8" 3/8"	20 m	30 m	20 m	20 g/m	10 m	7	✘					
												9/10	✘	✘	✘			✘
												12	✘	✘				
	CU-2E18LBE	A [2]: 7 or 9/10 or 12 B [2]: 7 or 9/10 or 12	4,0-6,4	Room A Room B	1/4" 1/4"	3/8" 3/8"	20 m	30 m	20 m	20 g/m	10 m	7	✘					
												9/10	✘	✘	✘		✘	✘
												12	✘	✘				
3 Rooms	CU-3E18LBE	A [3]: 7 or 9/10 or 12 or 15 or 18 B [3]: 7 or 9/10 or 12 or 15 or 18 C [3]: 7 or 9/10 or 12 or 15 or 18	4,5-9,0	Room A Room B Room C	1/4" 1/4" 1/4"	3/8" 3/8" 3/8"	25 m	50 m	30 m	20 g/m	15 m	7	✘			✘		
												9/10	✘	✘	✘	✘	✘	✘
												12	✘	✘		✘		
												14/15	✘		✘	✘	✘	✘
												18	✘	✘	✘		✘	✘
4 Rooms	CU-4E23LBE	A [3]: 7 or 9/10 or 12 or 15 or 18 or 21 B [3]: 7 or 9/10 or 12 or 15 or 18 or 21 C [3]: 7 or 9/10 or 12 or 15 or 18 or 21 D [3]: 7 or 9/10 or 12 or 15 or 18 or 21	4,5-11,0	Room A Room B Room C Room D	1/4" 1/4" 1/4" 1/4"	3/8" 3/8" 3/8" 3/8"	25 m	60 m	30 m	20 g/m	15 m	7	✘			✘		
												9/10	✘	✘	✘	✘	✘	✘
												12	✘	✘		✘		
												14/15	✘		✘	✘	✘	✘
												18	✘	✘	✘		✘	✘
												21	✘		✘			
	CU-4E27CBPG	A [3]: 7 or 9/10 or 12 or 15 or 18 B [3]: 7 or 9/10 or 12 or 15 or 18 C [3]: 7 or 9/10 or 12 or 15 or 18 D [3]: 7 or 9/10 or 12 or 15 or 18	4,5-13,6	Room A Room B Room C Room D	1/4" 1/4" 1/4" 1/4"	3/8" 3/8" 3/8" 3/8"	25 m	70 m	40 m	20 g/m	15 m	7	✘			✘		
												9/10	✘	✘	✘	✘	✘	✘
												12	✘	✘		✘		
												14/15	✘		✘	✘	✘	✘
												18	✘	✘	✘		✘	✘

1) The combinations must remain within this range,
2) A minimum of two indoor units must be connected,
3) A minimum of two indoor units must be connected. minimum combination at 2x1: 7+9,
Connectivity restriction : CS-E/XE_MKE units are only compatible with CU-2E15LBE. CU-2E18LBE. CU-3E18LBE. CU-4E23LBE and CU-4E27CBPG outdoor units, No other outdoor unit can be connected,

INDOOR UNITS FOR FREE MULTI COMBINATIONS

NEW 2011

30% savings ECONAVI · improved comfort AUTOCOMFORT · quality air control 24 h PATROL SENSOR · pure air system ION PLUS · perfect humidity control MILD DRY · silent air 20 dB SUPER QUIET

ETHEREA // SILVER OR WHITE // INVERTER+			2,0 KW	2,5 KW	3,2 KW	4 KW	5 KW	6 KW
Silver Indoor			**CS-XE7MKEW**	**CS-XE9MKEW**	**CS-XE12MKEW**	**CS-XE15MKEW** [1]	**CS-XE18MKEW** [1]	**CS-XE21MKEW** [1]
White Indoor			**CS-E7MKEW**	**CS-E9MKEW**	**CS-E12MKEW**	**CS-E15MKEW** [1]	**CS-E18MKEW** [1]	**CS-E21MKEW** [1]
Cooling capacity	Nominal	kW / kCal/h	2,00 / 1.720	2,50 / 2.150	3,20 / 2.750	4,00 / 3.440	5,00 / 4.300	6,00 / 5.160
Heating capacity	Nominal	kW / kCal/h	3,20 / 2.750	3,60 / 3.010	4,50 / 3.870	5,60 / 4.820	6,80 / 5.850	8,50 / 7.310
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Sound pressure level [2]	Cooling (Hi / Lo / S-Lo)	dB(A)	40 / 26 / 23	40 / 26 / 23	44 / 32 / 26	44 / 32 / 26	46 / 33 / 30	46 / 33 / 30
	Heating (Hi / Lo / S-Lo)	dB(A)	40 / 26 / 23	40 / 26 / 23	44 / 32 / 26	44 / 33 / 32	46 / 35 / 32	46 / 35 / 32
Sound power level	Cooling / Heating (Hi)	dB	54 / 56	56 / 56	60 / 60	60 / 60	62 / 62	62 / 62
Dimensions	H x W x D	mm	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 870 x 204	290 x 1.070 x 235	290 x 1.070 x 235
Net weight		kg	9	9	9	9	12	12
Air purifier filter			Patrol + E-ion	Patrol + E-ion	Patrol + E-ion	Patrol + E-ion	Patrol + E-ion	Patrol + E-ion
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)	1/2" (12,70)	1/2" (12,70)	1/2" (12,70)

LOW STATIC PRESSURE HIDE AWAY // INVERTER+			2,5 KW	4 KW	5 KW
Indoor hide away			**CS-E10KD3EA**	**CS-E15JD3EA** [1]	**CS-E18JD3EA** [1]
Wired remote control	**Include on the indoor unit**		**CZ-RD52CP**	**CZ-RD52CP**	**CZ-RD52CP**
Cooling capacity	Nominal	kW / kCal/h	2,50 / 2.150	4,00 / 3.440	5,00 / 4.300
Heating capacity	Nominal	kW / kCal/h	3,60 / 3.100	5,60 / 4.820	6,80 / 5.850
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5
External static pressure	High / Low	Pa (mm)	34 / 64 (3,47 / 6,53)	34 / 69 (3,47 / 7,04)	34 / 78 (3.47 / 7,95)
Air Volume	High / Medium / Low	m^3/h	414 / 402 / 330	474 / 402 / 330	624 / 528 / 444
Sound pressure level [2]	Cooling (Quiet / Low / High)	dB(A)	24 / 27 / 31	24 / 27 / 33	27 / 30 / 41
	Heating (Quiet / Low / High)	dB(A)	24 / 27 / 35	24 / 27 / 33	29 / 32 / 41
Sound power level	Cooling / Heating (Hi)	dB	49 / 51	49 / 51	57 / 57
Dimensions [4]	H x W x D	mm	235 x 750 (+65) x 370	235 x 750 (+65) x 370	285 x 750 (+65) x 370
Net weight		kg	17	18	18
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	1/2" (12,70)	1/2" (12,70)

OPTIONAL prevention allergy filter ALLERU-BUSTER

4 WAY 60X60 CASSETTE // INVERTER+			2,5 KW	4 KW	5 KW	6 KW
Indoor			**CS-E10KB4EA**	**CS-E15HB4EA** [1]	**CS-E18HB4EA** [1]	**CS-E21JB4EA** [1]
Panel	**Sold separately**		**CZ-BT20E**	**CZ-BT20E**	**CZ-BT20E**	**CZ-BT20E**
Wireless control	**Include on the indoor unit**					
Cooling capacity	Nominal	kW / kCal/h	2,50 / 2.150	4,00 / 3.440	5,00 / 4.300	6,00 / 5.160
Heating capacity	Nominal	kW / kCal/h	3,60 / 3.100	5,60 / 4.820	6,80 / 5.850	8,50 / 7.310
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Sound pressure level [2]	Cooling (Hi / Lo / S-Lo)	dB(A)	34 / 26 / 23	34 / 26 / 23	36 / 28 / 25	41 / 33 / 30
	Heating (Hi / Lo / S-Lo)	dB(A)	35 / 28 / 25	35 / 28 / 25	37 / 29 / 26	42 / 34 / 31
Sound power level	Cooling / Heating (Hi)	dB	47 / 58	47 / 48	49 / 50	54 / 55
Dimensions	Indoor (H x W x D)	mm	260 x 575 x 575	260 x 575 x 575	260 x 575 x 575	260 x 575 x 575
Dimensions	Panel (H x W x D)	mm	51 x 700 x 700	51 x 700 x 700	51 x 700 x 700	51 x 700 x 700
Net weight	Indoor (Panel)	kg	18 (2,5)	18 (2,5)	18 (2,5)	18 (2,5)
Air purifier filter	Optional		CZ-SA11P	CZ-SA11P	CZ-SA11P	CZ-SA11P
Piping connections	Liquid / Gas pipe	inch (mm)	1/4" (6,35) / 3/8" (9,52)	1/4" (6,35) / 1/2" (12,70)	1/4" (6,35) / 1/2" (12,70)	1/4" (6,35) / 1/2" (12,70)

OPTIONAL prevention allergy filter ALLERU-BUSTER

1-WAY CASSETTE // INVERTER+			2.0 KW	2,8 KW	3,2 KW	4 KW
Indoor			**CS-ME7KB1E**	**CS-ME10EBE1E**	**CS-ME12EBE1E**	**CS-ME14EBE1E**
Panel	**Sold separately**		**CZ-BT20P**	**CZ-BT20P**	**CZ-BT20P**	**CZ-BT20P**
Cooling capacity	Nominal	kW / kCal/h	2,00 / 1.720	2,80 / 2.410	3,20 / 2.750	4,00 / 3.440
Heating capacity	Nominal	kW / kCal/h	3,20 / 2.750	4,00 / 3.440	4,50 / 3.870	5,60 / 4.820
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5
Sound pressure level [2]	Cooling (Hi / Lo / S-Lo)	dB(A)	40 / 32 / 29	40 / 32 / 29	41 / 32 / 29	43 / 32 / 29
	Heating (Hi / Lo / S-Lo)	dB(A)	42 / 32 / 29	42 / 32 / 29	43 / 32 / 29	44 / 34 / 31
Sound power level	Cooling / Heating (Hi)	dB	53 / 55	53 / 55	54 / 56	56 / 57
Dimensions	Indoor (H x W x D)	mm	185 x 770 x 360	185 x 770 x 360	185 x 770 x 360	185 x 770 x 360
Dimensions	Panel (H x W x D)	mm	55 x 1.070 x 460	55 x 1.070 x 460	55 x 1.070 x 460	55 x 1.070 x 460
Net weight	Indoor	kg	9,8	9,8	9,8	9,8
Piping connections	Liquid / Gas pipe	inch (mm)	1/4" (6,35) / 3/8" (9,52)	1/4" (6,35) / 3/8" (9,52)	1/4" (6,35) / 3/8" (9,52)	1/4" (6,35) / 3/8" (9,52)

silent air 23 dB SUPER QUIET

FLOOR CONSOLE // INVERTER+			2,8 KW	3,2 KW	5 KW
Indoor			**CS-E9GFEW**	**CS-E12GFEW**	**CS-E18GFEW** [1]
Cooling capacity	Nominal	kW / kCal/h	2,80 / 2.410	3,20 / 2.750	5,00 / 4.300
Heating capacity	Nominal	kW / kCal/h	4,00 / 3.440	4,50 / 3.870	6,80 / 5.850
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5
Sound pressure level [2]	Cooling (Hi / Lo / S-Lo)	dB(A)	38 / 27 / 23	39 / 28 / 24	44 / 36 / 32
	Heating (Hi / Lo / S-Lo)	dB(A)	38 / 27 / 23	39 / 27 / 23	46 / 36 / 32
Sound power level	Cooling / Heating (Hi)	dB	54 / 54	55 / 55	60 / 62
Dimensions	H x W x D	mm	600 x 700 x 210	600 x 700 x 210	600 x 700 x 210
Net weight		kg	14	14	14
Piping connections	Liquid / Gas pipe	inch (mm)	1/4" (6,35) / 3/8" (9,52)	1/4" (6,35) / 3/8" (9,52)	1/4" (6,35) / 1/2" (12,70)

OPTIONAL prevention allergy filter ALLERU-BUSTER

FLOOR/CEILING CONSOLE // INVERTER+			2,8 kW	4 kW	5 kW
Indoor			**CS-ME10DTEG**	**CS-E15DTEW** [1]	**CS-E18DTEW** [1]
Cooling capacity	Nominal	kW / kCal/h	2,80 / 2,408	4,15 / 3.570	5,00 / 4.300
Heating capacity	Nominal	kW / kCal/h	4,00 / 3,440	5,17 / 4.450	6,80 / 5.850
Connection		mm^2	4 x 1,5	4 x 1,5	4 x 1,5
Sound pressure level [2]	Cooling (Hi / Lo / S-Lo)	dB(A)	39 / 31 / 28	45 / 37 / 34	46 / 39 / 36
	Heating (Hi / Lo / S-Lo)	dB(A)	40 / 31 / 28	45 / 33 / 30	47 / 35 / 32
Sound power level	Cooling / Heating (Hi)	dB	52 / 53	58 / 58	59 / 60
Dimensions	H x W x D	mm	540 x 1.028 x 200	540 x 1.028 x 200	540 x 1.028 x 200
Net weight		kg	17	17	18
Air purifier filter	Optional		CZ-SA14P	CZ-SA14P	CZ-SA14P
Piping connections	Liquid / Gas pipe	inch (mm)	1/4" (6,35) / 3/8" (9,52)	1/4" (6,35) / 1/2" (12,70)	1/4" (6,35) / 1/2" (12,70)

OUTDOOR UNITS FOR FREE MULTI COMBINATIONS

CU-2E15LBE · CU-2E18LBE · CU-3E18LBE · CU-4E23LBE · CU-4E27CBPG

A class energy saving INVERTER+ · down to -15°C in heating mode OUTDOOR TEMPERATURE LINE

OUTDOOR UNIT //INVERTER+			4,0 to 5,6 kW	4,0 to 6,4 kW	4,5 to 9,0 kW	4,5 to 11,0 kW	4,5 to 13,6 kW
Unit			**CU-2E15LBE**	**CU-2E18LBE**	**CU-3E18LBE**	**CU-4E23LBE**	**CU-4E27CBPG**
Cooling capacity	Nominal (Min - Max)	kW	4,50 (1,50-5,20)	5,20 (1,50-5,40)	5,20 (1,80-7,30)	6,80 (1.90-8,80)	8,00 (3,00-9,20)
	Nominal (Min - Max)	kCal/h	3.870 (1.290-4.470)	4.470 (1.290-4.640)	4.470 (1.550-6.280)	5.850 (1.630-7.570)	6.880 (2.580-7.910)
EER [3]	**Nominal**	**Energy Saving**	**3,66** A	**3,42** A	**4,33** A	**4,05** A	**4,04** A
Power input Cooling	Nominal (Min - Max)	kW	1,23 (0,25-1,52)	1,52 (0,25-1,58)	1,21 (0,36-2,18)	1,68 (0,34-2,47)	1,98 (0,53-2,87)
Heating capacity	Nominal (Min - Max)	kW	5,40 (1,10-7,00)	5,60 (1,10-7,20)	6,80 (1,60-8,30)	8,60 (3,00-10,60)	9,40 (4,20-10,60)
	Nominal (Min - Max)	kCal/h	4.640 (950-6.020)	4.820 (950-6.190)	5.850 (1.380-7.140)	7.400 (2.580-9.120)	8.080 (3.610/-9.120)
COP [3]	**Nominal**	**Energy Saving**	**4,62** A	**4,63** A	**4,86** A	**4,65** A	**4,52** A
Power input Heating	Nominal (Min - Max)	kW	1,17 (0,21-1,67)	1,21 (0,21-1,70)	1,44 (0,32-2,11)	1,85 (0,58-2,60)	2,08 (0,70-3,06)
Current	Cooling / Heating Nominal	A	5,75 / 5,20	7,10 / 5,35	5,30 / 6.50	7,50 / 8,60	8,70 / 9,10
Power source		V	230	230	230	230	230
Sound pressure level [2]	Cooling / Heating (Hi)	dB(A)	47 / 49	49 / 51	46 / 47	48 / 49	48 / 49
Sound power level	Cooling / Heating (Hi)	dB	62 / 64	64 / 66	60 / 61	62 / 63	61 / 62
Dimensions [4]	H x W x D	mm	540 x 780 (+70) x 289	540 x 780 (+70) x 289	795 x 875 (+95) x 320	795 x 875 (+95) x 320	908 x 900 x 320
Net weight		kg	38	38	71	72	73
Piping connections	Liquid pipe	inch (mm)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)	1/4" (6,35)
	Gas pipe	inch (mm)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)	3/8" (9,52)
Refrigerant Loading	R410A	kg	1,45	1,45	2,64	2,64	3,10
Elevation difference (in/out) [5]	Max	m	10	10	15	15	15
Piping length total	Max	m	30	30	50	60	70
Piping length to one unit	Min / Max	m	3-20	3-20	3-25	3-25	3-25
Piping length without refrigerant increase	Max	m	20	20	30	30	30
Additional gas		g/m	20	20	20	20	20
Operating range [2]	Cooling Min / Max	°C	16 / 43	16 / 43	-10 / 46	-10 / 46	16 / 43
	Heating Min / Max	°C	-10 / 24	-10 / 24	-15 / 24	-15 / 24	-10 / 24

GLOBAL REMARKS

Rating conditions	Cooling	Heating
Inside air temperature	27°C DB / 19°C WB	20°C DB
Outside air temperature	35°C DB / 24°C WB	7°C DB / 6°C WB

DB: Dry Bulb; WB: Wet Bulb

Connectivity restriction : CS-E/XE_MKE units are only compatible with CU-2E15LBE, CU-2E18LBE, CU-3E18LBE, CU-4E23LBE and CU-4E27CBPG outdoor units. No other outdoor unit can be connected.

1) A CZ-MA1P pipe reducer is needed on the E15 and E18, a CZ-MA2P pipe expander is needed on the E21.
2) The Sound pressure level of the units shows the value measured of a position 1 meter in front of the main body. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification.
3) EER and COP classification is at 230 V in accordance with EU directive 2002/31/EC.
4) Add 70 or 95 mm for piping port.
5) When installing the outdoor unit at a higher position than the indoor unit.

FREE MULTI COMBINATIONS

FREE MULTI 2X1 // OUTDOOR UNIT CU-2E15LBE

Indoor unit	Cooling Capacity (kW)			Input Power (W)	EER	A,C,E,	Current	Moisture Removal	Heating Capacity (kW)			Input Power (W)	COP	A,C,E,	Current
capacity	Room A	Room B	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)	Volume (l/h)	Room A	Room B	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)
1 Room															
7	2,00		2,00 [1,10-2,90]	520 (220 -750)	3,85 A	260	2,45	1,3	3,20		3,20 [0,70-4,80]	850 (170-1410)	3,76 A	425	3,75
9 [1]	2,50		2,50 [1,10-3,50]	670 (220 -1000)	3,73 A	335	3,15	1,5	3,60		3,60 [0,70-5,50]	1030 (170-1700)	3,50 B	515	4,55
10 [2]	2,80		2,80 [1,10-3,50]	750 (220 -1000)	3,73 A	375	3,50	1,6	4,00		4,00 [0,70-5,50]	1150 (170-1700)	3,48 B	575	5,10
12	3,20		3,20 [1,10-4,00]	920 (220 -1220)	3,48 A	460	4,30	1,8	4,50		4,50 [0,70-6,20]	1250 (170-1810)	3,60 B	625	5,55
2 Room															
7 + 7	2,00	2,00	4,00 [1,50-5,00]	1090 (250 -1350)	3,66 A	545	5,10	1,3 + 1,3	2,70	2,70	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20
7 + 9 [1]	2,00	2,50	4,50 [1,50-5,20]	1230 (250 -1520)	3,66 A	615	5,75	1,3 + 1,5	2,40	3,00	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20
7 + 10 [2]	1,85	2,65	4,50 [1,50-5,20]	1230 (250 -1520)	3,66 A	615	5,75	1,2 + 1,6	2,25	3,15	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20
7 + 12	1,75	2,75	4,50 [1,50-5,20]	1230 (250 -1520)	3,66 A	615	5,75	1,1 + 1,6	2,10	3,30	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20
9 [1] + 9 [1]	2,25	2,25	4,50 [1,50-5,20]	1230 (250 -1520)	3,66 A	615	5,75	1,5 + 1,5	2,70	2,70	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20
9 [1] + 10 [2]	2,10	2,40	4,50 [1,50-5,20]	1230 (250 -1520)	3,66 A	615	5,75	1,4 + 1,5	2,55	2,85	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20
10 [2] + 10 [2]	2,25	2,25	4,50 [1,50-5,20]	1230 (250 -1520)	3,66 A	615	5,75	1,5 + 1,5	2,70	2,70	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20

FREE MULTI 2X1 // OUTDOOR UNIT CU-2E18LBE

Indoor unit	Cooling Capacity (kW)			Input Power (W)	EER	A,C,E,	Current	Moisture Removal	Heating Capacity (kW)			Input Power (W)	COP	A,C,E,	Current
capacity	Room A	Room B	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)	Volume (l/h)	Room A	Room B	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)
1 Room															
7	2,00		2,00 [1,10-2,90]	520 (220-750)	3,85 A	260	2,45	1,3	3,20		3,20 [0,70-4,80]	850 (170-1410)	3,76 A	425	3,75
9 [1]	2,50		2,50 [1,10-3,50]	670 (220-1000)	3,73 A	335	3,15	1,5	3,60		3,60 [0,70-5,50]	1030 (170-1700)	3,50 B	515	4,55
10 [2]	2,80		2,80 [1,10-3,50]	750 (220-1000)	3,73 A	375	3,50	1,6	4,00		4,00 [0,70-5,50]	1150 (170-1700)	3,48 B	575	5,10
12	3,20		3,20 [1,10-4,00]	920 (220-1220)	3,48 A	460	4,30	1,8	4,50		4,50 [0,70-6,20]	1250 (170-1810)	3,60 B	625	5,55
2 Rooms															
7 + 7	2,00	2,00	4,00 [1,50-5,00]	1090 (250-1350)	3,66 A	545	5,10	1,3 + 1,3	2,70	2,70	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20
7 + 9 [1]	2,00	2,50	4,50 [1,50-5,20]	1230 (250-1520)	3,66 A	615	5,75	1,3 + 1,5	2,40	3,00	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20
7 + 10 [2]	1,85	2,65	4,50 [1,50-5,20]	1230 (250-1520)	3,66 A	615	5,75	1,2 + 1,6	2,25	3,15	5,40 [1,10-7,00]	1170 (210-1670)	4,62 A	585	5,20
7 + 12	1,85	2,95	4,80 [1,50-5,30]	1310 (250-1540)	3,66 A	655	6,10	1,2 + 1,7	2,15	3,45	5,60 [1,10-7,20]	1230 (210-1720)	4,55 A	615	5,45
9 [1] + 9 [1]	2,40	2,40	4,80 [1,50-5,30]	1310 (250-1520)	3,66 A	655	6,10	1,5 + 1,5	2,80	2,80	5,60 [1,10-7,20]	1250 (210-1740)	4,48 A	625	5,55
9 [1] + 10 [2]	2,25	2,55	4,80 [1,50-5,20]	1310 (250-1520)	3,66 A	655	6,10	1,5 + 1,6	2,65	2,95	5,60 [1,10-7,20]	1250 (210-1740)	4,48 A	625	5,55
9 [1] + 12	2,20	2,80	5,00 [1,50-5,30]	1490 (250-1540)	3,36 A	745	6,95	1,4 + 1,6	2,45	3,15	5,60 [1,10-7,20]	1230 (210-1720)	4,55 A	615	5,45
10 [2] + 10 [2]	2,40	2,40	4,80 [1,50-5,20]	1310 (250-1520)	3,66 A	655	6,10	1,5 + 1,5	2,80	2,80	5,60 [1,10-7,20]	1250 (210-1740)	4,48 A	625	5,55
10 [2] + 12	2,35	2,65	5,00 [1,50-5,30]	1490 (250-1540)	3,36 A	745	6,95	1,5 + 1,6	2,60	3,00	5,60 [1,10-7,20]	1230 (210-1720)	4,55 A	615	5,45
12 + 12	2,60	2,60	5,20 [1,50-5,40]	1520 (250-1580)	3,42 A	760	7,10	1,6 + 1,6	2,80	2,80	5,60 [1,10-7,20]	1210 (210-1700)	4,63 A	605	5,35

FREE MULTI 3X1 // OUTDOOR UNIT CU-3E18LBE

Indoor unit	Cooling Capacity (kW)				Input Power (W)	EER	A,C,E,	Current	Moisture Removal	Heating Capacity (kW)				Input Power (W)	COP	A,C,E,	Current
capacity	Room A	Room B	Room C	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)	Volume (l/h)	Room A	Room B	Room C	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)
1 Room																	
7	2,00			2,00 [1,80-2,90]	500 (340-810)	4,00 A	250	2,5	1,3	3,20			3,20 [1,20-4,10]	740 (300-1230)	4,32 A	370	3,7
9 [1]	2,50			2,50 [1,80-2,90]	630 (340-810)	4,00 A	315	3,0	1,5	3,60			3,60 [1,20-4,30]	940 (300-1230)	3,83 A	470	4,5
10 [2]	2,80			2,80 [1,80-2,90]	700 (340-810)	4,00 A	350	3,3	1,6	4,00			4,00 [1,20-4,30]	1050 (300-1230)	3,81 A	525	5,0
12	3,20			3,20 [1,80-3,80]	800 (340-1360)	4,00 A	400	3,7	1,8	4,50			4,50 [1,20-5,80]	1230 (300-2100)	3,66 A	615	5,8
15	4,00			4,00 [1,80-4,30]	1240 (340-1990)	3,23 A	620	5,6	2,3	5,60			5,60 [1,20-6,80]	1720 (300-2930)	3,26 C	860	7,7
18	5,00			5,00 [1,90-5,70]	1550 (340-2130)	3,23 A	775	6,8	2,7	6,80			6,80 [1,20-6,90]	2100 (300-2520)	3,24 C	1050	9,2
2 Rooms																	
7 + 7	2,00	2,00		4,00 [1,90-6,20]	1010 (350-2100)	3,96 A	505	4,5	1,3 + 1,3	2,90	2,90		5,80 [1,40-7,00]	1450 (310-2550)	4,00 A	725	6,4
7 + 9 [1]	2,00	2,50		4,50 [1,90-6,20]	1270 (350-2100)	3,55 A	635	5,6	1,3 + 1,5	2,84	3,56		6,40 [1,40-7,00]	1720 (310-2550)	3,72 A	860	7,6
7 + 10 [2]	2,00	2,80		4,80 [1,90-6,20]	1350 (350-2100)	3,55 A	675	6,0	1,3 + 1,6	2,67	3,73		6,40 [1,40-7,00]	1720 (310-2550)	3,72 A	860	7,6
7 + 12	2,00	3,20		5,20 [1,90-6,30]	1490 (350-2110)	3,49 A	745	6,6	1,3 + 1,8	2,62	4,18		6,80 [1,40-7,30]	1840 (310-2520)	3,70 A	920	8,2
7 + 15	1,73	3,47		5,20 [1,90-6,40]	1450 (350-2110)	3,59 A	725	6,4	1,1 + 2,0	2,27	4,53		6,80 [1,40-7,30]	1800 (310-2510)	3,78 A	900	7,9
7 + 18	1,49	3,71		5,20 [1,90-6,80]	1290 (360-2150)	4,03 A	645	5,7	0,9 + 2,2	1,94	4,86		6,80 [1,40-8,00]	1520 (310-2200)	4,47 A	760	6,7
9 [1] + 9 [1]	2,50	2,50		5,00 [1,90-6,20]	1540 (350-2100)	3,25 A	770	6,8	1,5 + 1,5	3,40	3,40		6,80 [1,40-7,00]	1930 (310-2550)	3,52 B	965	8,5
9 [1] + 10 [2]	2,45	2,75		5,20 [1,90-6,20]	1540 (350-2100)	3,38 A	770	6,8	1,5 + 1,6	3,21	3,59		6,80 [1,40-7,00]	1930 (310-2550)	3,52 B	965	8,5
9 [1] + 12	2,28	2,92		5,20 [1,90-6,30]	1480 (350-2110)	3,51 A	740	6,5	1,5 + 1,7	2,98	3,82		6,80 [1,40-7,30]	1840 (310-2520)	3,70 A	920	8,1
9 [1] + 15	2,00	3,20		5,20 [1,90-6,40]	1440 (350-2110)	3,61 A	720	6,4	1,3 + 1,8	2,62	4,18		6,80 [1,40-7,30]	1800 (310-2510)	3,78 A	900	8,0
9 [1] + 18	1,73	3,47		5,20 [1,90-6,80]	1290 (360-2150)	4,03 A	645	5,7	1,1 + 2,0	2,27	4,53		6,80 [1,40-8,00]	1520 (310-2200)	4,47 A	760	6,7
10 [2] + 10 [2]	2,60	2,60		5,20 [1,90-6,20]	1540 (350-2100)	3,38 A	770	6,8	1,6 + 1,6	3,40	3,40		6,80 [1,40-7,00]	1930 (310-2550)	3,52 B	965	8,5
10 [2] + 12	2,43	2,77		5,20 [1,90-6,30]	1480 (350-2110)	3,51 A	740	6,5	1,5 + 1,6	3,17	3,63		6,80 [1,40-7,30]	1840 (310-2520)	3,70 A	920	8,1
10 [2] + 15	2,14	3,06		5,20 [1,90-6,40]	1440 (350-2110)	3,61 A	720	6,4	1,4 + 1,7	2,80	4,00		6,80 [1,40-7,30]	1800 (310-2510)	3,78 A	900	8,0
10 [2] + 18	1,87	3,33		5,20 [1,90-6,80]	1290 (360-2150)	4,03 A	645	5,7	1,2 + 1,9	2,44	4,36		6,80 [1,40-8,00]	1520 (310-2200)	4,47 A	760	6,7
12 + 12	2,60	2,60		5,20 [1,90-6,40]	1450 (350-2120)	3,59 A	725	6,4	1,6 + 1,6	3,40	3,40		6,80 [1,40-7,50]	1750 (310-2490)	3,89 A	875	7,7
12 + 15	2,31	2,89		5,20 [1,90-6,50]	1410 (350-2120)	3,69 A	705	6,3	1,5 + 1,7	3,02	3,78		6,80 [1,40-7,50]	1750 (310-2470)	3,89 A	875	7,8
12 + 18	2,03	3,17		5,20 [1,90-6,90]	1250 (360-2150)	4,16 A	625	5,5	1,3 + 1,8	2,65	4,15		6,80 [1,40-8,00]	1500 (310-2180)	4,53 A	750	6,6
15 + 15	2,60	2,60		5,20 [1,90-6,50]	1410 (350-2120)	3,69 A	705	6,2	1,6 + 1,6	3,40	3,40		6,80 [1,40-7,60]	1710 (310-2470)	3,98 A	855	7,5
15 + 18	2,31	2,89		5,20 [1,90-6,90]	1250 (360-2160)	4,16 A	625	5,5	1,5 + 1,7	3,02	3,78		6,80 [1,40-8,00]	1500 (310-2170)	4,53 A	750	6,6
3 Rooms																	
7 + 7 + 7	1,73	1,73	1,73	5,19 [1,90-7,20]	1220 (360-2170)	4,25 A	610	5,3	1,1 + 1,1 + 1,1	2,26	2,26	2,26	6,78 [1,50-8,10]	1510 (320-2120)	4,49 A	755	6,7
7 + 7 + 9 [1]	1,60	1,60	2,00	5,20 [1,90-7,20]	1220 (360-2170)	4,26 A	610	5,3	1,0 + 1,0 + 1,3	2,09	2,09	2,62	6,80 [1,50-8,10]	1510 (320-2120)	4,50 A	755	6,7
7 + 7 + 10 [2]	1,53	1,53	2,14	5,20 [1,90-7,20]	1220 (360-2170)	4,26 A	610	5,3	1,0 + 1,0 + 1,4	2,00	2,00	2,80	6,80 [1,50-8,10]	1510 (320-2120)	4,50 A	755	6,7
7 + 7 + 12	1,44	1,44	2,32	5,20 [1,90-7,20]	1210 (360-2180)	4,30 A	605	5,3	0,9 + 0,9 + 1,5	1,89	1,89	3,02	6,80 [1,40-8,30]	1470 (320-2110)	4,63 A	735	6,5
7 + 7 + 15	1,30	1,30	2,60	5,20 [1,80-7,30]	1210 (360-2180)	4,30 A	605	5,3	0,8 + 0,8 + 1,6	1,70	1,70	3,40	6,80 [1,60-8,30]	1440 (320-2110)	4,72 A	720	6,4
7 + 7 + 18	1,16	1,16	2,88	5,20 [1,80-7,30]	1200 (360-2180)	4,33 A	600	5,3	0,7 + 0,7 + 1,7	1,51	1,51	3,78	6,80 [1,60-8,30]	1400 (320-2110)	4,86 A	700	6,5
7 + 9 [1] + 9 [1]	1,48	1,86	1,86	5,20 [1,90-7,20]	1220 (360-2170)	4,26 A	610	5,3	0,9 + 1,2 + 1,2	1,94	2,43	2,43	6,80 [1,50-8,10]	1510 (320-2120)	4,50 A	755	6,7
7 + 9 [1] + 10 [2]	1,42	1,78	2,00	5,20 [1,90-7,20]	1220 (360-2170)	4,26 A	610	5,3	0,9 + 1,1 + 1,3	1,86	2,33	2,61	6,80 [1,50-8,10]	1510 (320-2120)	4,50 A	755	6,7
7 + 9 [1] + 12	1,35	1,69	2,16	5,20 [1,90-7,20]	1210 (360-2180)	4,30 A	605	5,3	0,9 + 1,1 + 1,4	1,76	2,21	2,83	6,80 [1,40-8,30]	1470 (320-2110)	4,63 A	735	6,5
7 + 9 [1] + 15	1,22	1,53	2,45	5,20 [1,80-7,30]	1200 (360-2180)	4,33 A	600	5,3	0,8 + 1,0 + 1,5	1,60	2,00	3,20	6,80 [1,60-8,30]	1400 (320-2110)	4,86 A	700	6,5
7 + 10 [2] + 10 [2]	1,36	1,92	1,92	5,20 [1,90-7,20]	1220 (360-2170)	4,26 A	610	5,3	0,9 + 1,2 + 1,2	1,78	2,51	2,51	6,80 [1,50-8,10]	1510 (320-2120)	4,50 A	755	6,7
7 + 10 [2] + 12	1,30	1,82	2,08	5,20 [1,90-7,20]	1210 (360-2180)	4,30 A	605	5,3	0,8 + 1,2 + 1,3	1,70	2,38	2,72	6,80 [1,40-8,30]	1470 (320-2110)	4,63 A	735	6,5
7 + 10 [2] + 15	1,18	1,65	2,37	5,20 [1,80-7,30]	1200 (360-2180)	4,33 A	600	5,3	0,7 + 1,1 + 1,5	1,55	2,16	3,09	6,80 [1,60-8,30]	1400 (320-2110)	4,86 A	700	6,5
7 + 12 + 12	1,24	1,98	1,98	5,20 [1,80-7,30]	1200 (360-2180)	4,33 A	600	5,3	0,8 + 1,3 + 1,3	1,62	2,59	2,59	6,80 [1,60-8,30]	1410 (320-2100)	4,82 A	705	6,3
9 [1] + 9 [1] + 9 [1]	1,73	1,73	1,73	5,19 [1,90-7,20]	1220 (360-2170)	4,25 A	610	5,3	1,1 + 1,1 + 1,1	2,26	2,26	2,26	6,78 [1,50-8,10]	1510 (320-2120)	4,49 A	755	6,7
9 [1] + 9 [1] + 10 [2]	1,67	1,67	1,86	5,20 [1,90-7,20]	1220 (360-2170)	4,26 A	610	5,3	1,1 + 1,1 + 1,2	2,18	2,18	2,44	6,80 [1,50-8,10]	1510 (320-2120)	4,50 A	755	6,7
9 [1] + 9 [1] + 12	1,59	1,59	2,02	5,20 [1,90-7,20]	1210 (360-2180)	4,30 A	605	5,3	1,0 + 1,0 + 1,3	2,07	2,07	2,66	6,80 [1,40-8,30]	1470 (320-2110)	4,63 A	735	6,5
9 [1] + 9 [1] + 15	1,44	1,44	2,32	5,20 [1,80-7,30]	1200 (360-2180)	4,33 A	600	5,3	0,9 + 0,9 + 1,5	1,89	1,89	3,02	6,80 [1,60-8,30]	1400 (320-2110)	4,86 A	700	6,5
9 [1] + 10 [2] + 10 [2]	1,60	1,80	1,80	5,20 [1,90-7,20]	1220 (360-2170)	4,26 A	610	5,3	1,0 + 1,2 + 1,2	2,10	2,35	2,35	6,80 [1,50-8,10]	1510 (320-2120)	4,50 A	755	6,7
9 [1] + 10 [2] + 12	1,53	1,71	1,96	5,20 [1,90-7,20]	1210 (360-2180)	4,30 A	605	5,3	1,0 + 1,1 + 1,3	2,00	2,24	2,56	6,80 [1,40-8,30]	1470 (320-2110)	4,63 A	735	6,5
9 [1] + 12 + 12	1,46	1,87	1,87	5,20 [1,80-7,30]	1200 (360-2180)	4,33 A	600	5,3	0,9 + 1,2 + 1,2	1,92	2,44	2,44	6,80 [1,60-8,30]	1410 (320-2100)	4,82 A	705	6,3
10 [2] + 10 [2] + 10 [2]	1,73	1,73	1,73	5,19 [1,90-7,20]	1220 (360-2170)	4,25 A	610	5,3	1,1 + 1,1 + 1,1	2,26	2,26	2,26	6,78 [1,50-8,10]	1510 (320-2120)	4,49 A	755	6,7
10 [2] + 10 [2] + 12	1,65	1,65	1,90	5,20 [1,90-7,2]	1210 (360-2180)	4,30 A	605	5,3	1,1 + 1,1 + 1,2	2,16	2,16	2,48	6,80 [1,40-8,30]	1470 (320-2110)	4,63 A	735	6,5

FREE MULTI 4X1 // OUTDOOR UNIT CU-4E23LBE

Indoor unit	Cooling Capacity (kW)				Input Power (W)	EER	A,C,E,	Current	Moisture Removal	Heating Capacity (kW)				Input Power (W)	COP	A,C,E,	Current
capacity	Room A	Room B	Room C	Room D	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)	Volume (l/h)	Room A	Room B	Room C	Room D	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)
1 Room																			
7	2,00				2,00 [1,80-2,90]	500 [340-810]	4,00 A	250	2,5	1,3	3,20				3,20 [1,20-4,10]	740 [300-1230]	4,32 A	370	3,7
9 [1]	2,50				2,50 [1,80-2,90]	630 [340-810]	4,00 A	315	3,2	1,5	3,60				3,60 [1,20-4,30]	940 [300-1230]	3,83 A	470	4,7
10 [2]	2,80				2,80 [1,80-2,90]	700 [340-810]	4,00 A	350	3,5	1,6	4,00				4,00 [1,20-4,30]	1050 [300-1230]	3,81 A	525	5,2
12	3,20				3,20 [1,80-3,80]	800 [340-1360]	4,00 A	400	3,9	1,8	4,50				4,50 [1,20-5,80]	1230 [300-2100]	3,66 A	615	6,0
15	4,00				4,00 [1,80-4,30]	1240 [340-1990]	3,23 A	620	5,8	2,3	5,60				5,60 [1,20-6,80]	1720 [300-2930]	3,26 C	860	8,0
18	5,00				5,00 [1,90-5,70]	1550 [340-2130]	3,23 A	775	7,2	2,7	6,80				6,80 [1,20-6,90]	2100 [300-2520]	3,24 C	1050	9,7
21	6,00				6,00 [1,90-6,20]	2030 [340-2330]	2,96 C	1015	9,2	3,3	8,50				8,50 [1,30-9,00]	2400 [620-2530]	3,54 B	1200	11,1
2 Room																			
7 + 7	2,00	2,00			4,00 [1,90-6,40]	1010 [340-2150]	3,96 A	505	4,5	1,3 + 1,3	2,90	2,90			5,80 [2,70-9,80]	1450 [610-2800]	4,00 A	725	6,7
7 + 9 [1]	2,00	2,50			4,50 [1,90-6,40]	1270 [340-2150]	3,55 A	635	5,7	1,3 + 1,5	2,71	3,39			6,10 [2,70-9,80]	1640 [610-2800]	3,72 A	820	7,6
7 + 10 [2]	2,00	2,80			4,80 [1,90-6,40]	1350 [340-2150]	3,55 A	675	6,1	1,3 + 1,6	2,67	3,73			6,40 [2,70-9,80]	1720 [610-2800]	3,72 A	860	8,0
7 + 12	2,00	3,20			5,20 [1,90-6,90]	1510 [340-2410]	3,44 A	755	6,8	1,3 + 1,8	2,69	4,31			7,00 [2,70-9,90]	1840 [590-2800]	3,80 A	920	8,5
7 + 15	2,00	4,00			6,00 [1,90-6,90]	1810 [330-2410]	3,32 A	905	8,1	1,3 + 2,3	2,73	5,47			8,20 [2,70-9,90]	2210 [590-2800]	3,71 A	1105	10,2
7 + 18	1,94	4,86			6,80 [2,00-7,50]	1800 [320-2440]	3,78 A	900	8,1	1,3 + 2,6	2,46	6,14			8,60 [2,80-10,20]	2140 [530-2760]	4,02 A	1070	9,9
7 + 21	1,70	5,10			6,80 [2,00-7,50]	1800 [320-2440]	3,78 A	900	8,1	1,1 + 2,8	2,15	6,45			8,60 [2,80-10,20]	2290 [530-2760]	3,76 A	1145	10,6
9 [1] + 9 [1]	2,50	2,50			5,00 [1,90-6,80]	1380 [340-2400]	3,61 A	690	6,2	1,5 + 1,5	3,20	3,20			6,40 [2,70-9,80]	1700 [610-2800]	3,77 A	850	7,8
9 [1] + 10 [2]	2,50	2,80			5,30 [1,90-6,80]	1470 [340-2400]	3,61 A	735	6,6	1,5 + 1,6	3,30	3,70			7,00 [2,70-9,80]	1860 [610-2800]	3,77 A	930	8,6
9 [1] + 12	2,50	3,20			5,70 [1,90-6,90]	1660 [340-2410]	3,43 A	830	7,4	1,5 + 1,8	3,55	4,55			8,10 [2,70-9,90]	2170 [590-2800]	3,73 A	1085	10,0
9 [1] + 15	2,50	4,00			6,50 [1,90-6,90]	2070 [330-2410]	3,13 B	1035	9,2	1,5 + 2,3	3,31	5,29			8,60 [2,70-9,90]	2320 [590-2800]	3,71 A	1160	10,7
9 [1] + 18	2,27	4,53			6,80 [1,90-7,50]	1970 [320-2440]	3,45 A	985	8,8	1,5 + 2,5	2,87	5,73			8,60 [2,80-10,20]	2140 [530-2760]	4,02 A	1070	9,9
9 [1] + 21	2,00	4,80			6,80 [1,90-7,50]	1970 [320-2440]	3,45 A	985	8,8	1,3 + 2,6	2,53	6,07			8,60 [2,80-10,20]	2140 [530-2760]	4,02 A	1070	9,9
10 [2] + 10 [2]	2,80	2,80			5,60 [1,90-6,80]	1550 [340-2400]	3,61 A	775	6,9	1,6 + 1,6	4,00	4,00			8,00 [2,70-9,80]	2120 [610-2800]	3,77 A	1060	9,8
10 [2] + 12	2,80	3,20			6,00 [1,90-6,90]	1750 [340-2410]	3,43 A	875	7,8	1,6 + 1,8	3,97	4,53			8,50 [2,70-9,90]	2280 [590-2800]	3,73 A	1140	10,5
10 [2] + 15	2,80	4,00			6,80 [1,90-6,90]	2170 [330-2410]	3,13 B	1085	9,7	1,6 + 2,3	3,54	5,06			8,60 [2,70-9,90]	2320 [590-2800]	3,71 A	1160	10,7
10 [2] + 18	2,44	4,36			6,80 [1,90-7,50]	1970 [320-2440]	3,45 A	985	8,8	1,5 + 2,4	3,09	5,51			8,60 [2,80-10,20]	2140 [530-2760]	4,02 A	1070	9,9
10 [2] + 21	2,16	4,64			6,80 [1,90-7,50]	1970 [320-2440]	3,45 A	985	8,8	1,4 + 2,5	2,74	5,86			8,60 [2,80-10,20]	2140 [530-2760]	4,02 A	1070	9,9
12 + 12	3,20	3,20			6,40 [1,90-7,00]	1960 [330-2420]	3,27 A	980	8,8	1,8 + 1,8	4,30	4,30			8,60 [2,80-10,00]	2270 [580-2800]	3,79 A	1135	10,5
12 + 15	3,02	3,78			6,80 [1,90-7,10]	2070 [330-2420]	3,29 A	1035	9,3	1,7 + 2,2	3,82	4,78			8,60 [2,80-10,00]	2270 [570-2800]	3,79 A	1135	10,5
12 + 18	2,65	4,15			6,80 [2,00-7,60]	1890 [320-2450]	3,60 A	945	8,5	1,6 + 2,4	3,36	5,24			8,60 [2,80-10,30]	2090 [520-2740]	4,11 A	1045	9,7
12 + 21	2,37	4,43			6,80 [2,00-7,60]	1890 [320-2450]	3,60 A	945	8,5	1,5 + 2,5	2,99	5,61			8,60 [2,80-10,30]	2090 [520-2740]	4,11 A	1045	9,7
15 + 15	3,40	3,40			6,80 [1,90-7,10]	2270 [330-2420]	3,00 C	1135	10,2	1,9 + 1,9	4,30	4,30			8,60 [2,80-10,00]	2260 [560-2800]	3,81 A	1130	10,5
15 + 18	3,02	3,78			6,80 [2,00-7,60]	1890 [320-2450]	3,60 A	945	8,5	1,7 + 2,2	3,82	4,78			8,60 [2,80-10,30]	2080 [510-2740]	4,13 A	1040	9,6
15 + 21	2,72	4,08			6,80 [2,00-7,60]	1890 [320-2450]	3,60 A	945	8,5	1,6 + 2,3	3,44	5,16			8,60 [2,80-10,30]	2080 [510-2740]	4,13 A	1040	9,6
18 + 18	3,40	3,40			6,80 [2,10-8,10]	1780 [310-2460]	3,82 A	890	8,0	1,9 + 1,9	4,30	4,30			8,60 [2,80-10,50]	1960 [480-2650]	4,39 A	980	9,1

FREE MULTI 4X1 // OUTDOOR UNIT CU-4E27CBPG

Indoor unit	Cooling Capacity (kW)					Input Power (W)	EER	A,C,E,	Current	Moisture Removal	Heating Capacity (kW)					Input Power (W)	COP	A,C,E,	Current
capacity	Room A	Room B	Room C	Room D	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)	Volume (l/h)	Room A	Room B	Room C	Room D	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)
1 Room																			
7	2,00				2,00 (1,90-2,70)	440 (380-620)	4,52 A	220	2,10	1,3	3,20				3,20 (1,70-4,70)	840 (370-1830)	3,81 A	420	3,85
9 [1]	2,50				2,50 (2,00-3,40)	550 (380-900)	4,52 A	275	2,60	1,5	3,60				3,60 (1,70-4,80)	1090 (370-1900)	3,31 C	545	4,85
10 [2]	2,80				2,80 (2,00-3,40)	620 (380-900)	4,52 A	310	2,95	1,6	4,00				4,00 (1,70-4,80)	1210 (370-1900)	3,31 C	605	5,40
12	3,20				3,20 (2,00-3,90)	720 (380-1090)	4,44 A	360	3,40	1,8	4,50				4,50 (1,70-5,80)	1310 (370-2290)	3,44 B	655	5,85
15	4,00				4,00 (2,00-4,40)	1030 (380-1390)	3,88 A	515	4,60	2,3	5,60				5,60 (1,80-7,20)	1900 (370-3560)	2,95 D	950	8,35
18	5,00				5,00 (2,10-5,20)	1610 (400-1800)	3,11 B	805	7,15	2,7	7,10				7,10 (2,10-7,30)	2840 (430-3560)	2,50 F	1420	12,40
2 Room																			
7 + 7	2,00	2,00			4,00 (2,10-5,00)	890 (400-1260)	4,49 A	445	3,95	1,3 + 1,3	3,20	3,20			6,40 (1,80-9,40)	1480 (400-3550)	4,32 A	740	6,50
7 + 9 [1]	2,00	2,50			4,50 (2,10-6,10)	1110 (400-1880)	4,07 A	555	4,90	1,3 + 1,5	3,15	3,95			7,10 (2,10-9,40)	1700 (420-3510)	4,18 A	850	7,55
7 + 10 [2]	2,00	2,80			4,80 (2,10-6,10)	1180 (400-1880)	4,07 A	590	5,20	1,3 + 1,6	2,95	4,15			7,10 (2,10-9,40)	1700 (420-3510)	4,18 A	850	7,55
7 + 12	2,00	3,20			5,20 (2,20-7,00)	1320 (400-2790)	3,94 A	660	5,80	1,3 + 1,8	2,90	4,60			7,50 (2,20-9,80)	1740 (420-3490)	4,31 A	870	7,65
7 + 15	2,00	4,00			6,00 (2,20-7,10)	1760 (400-2790)	3,41 A	880	7,75	1,3 + 2,3	2,75	5,55			8,30 (2,40-9,80)	2060 (440-3440)	4,03 A	1030	9,05
7 + 18	2,00	5,00			7,00 (2,50-7,20)	2500 (460-2800)	2,80 D	1250	11,00	1,3 + 2,7	2,50	6,30			8,80 (3,20-9,90)	2260 (530-3400)	3,89 A	1130	9,90
9 [1] + 9 [1]	2,50	2,50			5,00 (2,20-6,90)	1380 (400-2780)	3,61 A	690	6,10	1,5 + 1,5	3,55	3,55			7,10 (2,30-9,40)	1860 (440-3480)	3,81 A	930	8,15
9 [1] + 10 [2]	2,50	2,80			5,30 (2,20-6,90)	1470 (400-2780)	3,61 A	735	6,50	1,5 + 1,6	3,55	3,95			7,50 (2,30-9,40)	1970 (440-3480)	3,81 A	985	8,65
9 [1] + 12	2,50	3,20			5,70 (2,20-7,00)	1620 (400-2790)	3,53 A	810	7,15	1,5 + 1,8	3,55	4,55			8,10 (2,40-9,80)	1980 (440-3460)	4,09 A	990	8,70
9 [1] + 15	2,50	4,00			6,50 (2,20-7,10)	2180 (400-2790)	2,98 C	1090	9,60	1,5 + 2,3	3,30	5,30			8,60 (2,10-9,80)	2175 (530-3390)	3,95 A	1088	9,65
9 [1] + 18	2,35	4,75			7,10 (2,50-7,20)	2610 (460-2800)	2,72 D	1305	11,50	1,5 + 2,6	3,00	6,00			9,00 (3,20-9,90)	2390 (530-3370)	3,77 A	1195	10,50
10 [2] + 10 [2]	2,80	2,80			5,60 (2,20-6,90)	1550 (400-2780)	3,61 A	775	6,85	1,6 + 1,6	3,85	3,85			7,70 (2,30-9,40)	2020 (440-3480)	3,81 A	1010	8,85
10 [2] + 12	2,80	3,20			6,00 (2,20-7,00)	1700 (400-2790)	3,53 A	850	7,55	1,6 + 1,8	3,80	4,30			8,10 (2,40-9,80)	1980 (440-3460)	4,09 A	990	8,70
10 [2] + 15	2,80	4,00			6,80 (2,20-7,10)	2280 (400-2790)	2,98 C	1140	10,00	1,6 + 2,3	3,55	5,05			8,60 (2,10-9,80)	2175 (530-3390)	3,95 A	1088	9,65
10 [2] + 18	2,55	4,55			7,10 (2,50-7,20)	2610 (460-2800)	2,72 D	1305	11,50	1,6 + 2,5	3,25	5,75			9,00 (3,20-9,90)	2390 (530-3370)	3,77 A	1195	10,50
12 + 12	3,20	3,20			6,40 (2,20-7,30)	1860 (400-2810)	3,44 A	930	8,15	1,8 + 1,8	4,25	4,25			8,50 (2,50-10,10)	2110 (470-3390)	4,03 A	1055	9,30
12 + 15	3,10	3,90			7,00 (2,50-7,30)	2410 (460-2810)	2,90 C	1205	10,60	1,7 + 2,3	3,90	4,90			8,80 (3,20-10,10)	2230 (530-3340)	3,95 A	1115	9,85
12 + 18	2,90	4,50			7,40 (2,60-7,40)	2820 (460-2880)	2,62 D	1410	12,30	1,7 + 2,5	3,60	5,60			9,20 (3,20-10,10)	2390 (530-3300)	3,85 A	1195	10,50
15 + 15	3,60	3,60			7,20 (2,50-7,30)	2620 (460-2810)	2,75 D	1310	11,50	2,1 + 2,1	4,55	4,55			9,10 (3,20-10,10)	2360 (530-3320)	3,86 A	1180	10,30
15 + 18	3,25	4,05			7,30 (2,70-7,40)	2670 (480-2820)	2,73 D	1335	11,70	1,8 + 2,3	4,20	5,20			9,40 (3,20-10,20)	2480 (530-3300)	3,79 A	1240	10,90
18 + 18	3,75	3,75			7,50 (2,80-7,60)	2860 (480-2870)	2,62 D	1430	12,50	2,2 + 2,2	4,70	4,70			9,40 (3,50-10,20)	2470 (590-3290)	3,81 A	1235	10,90
3 Room																			
7 + 7 + 7	2,00	2,00	2,00		6,00 (2,20-7,80)	1510 (410-2490)	3,98 A	755	6,65	1,3 + 1,3 + 1,3	2,87	2,87	2,87		8,61 (3,10-10,40)	1990 (500-3250)	4,33 A	995	8,80
7 + 7 + 9 [1]	2,00	2,00	2,50		6,50 (2,50-8,10)	1760 (460-2850)	3,70 A	880	7,75	1,3 + 1,3 + 1,5	2,70	2,70	3,40		8,80 (3,20-10,40)	2010 (510-3220)	4,38 A	1005	8,85
7 + 7 + 10 [2]	2,00	2,00	2,80		6,80 (2,50-8,10)	1840 (460-2850)	3,70 A	920	8,10	1,3 + 1,3 + 1,6	2,60	2,60	3,60		8,80 (3,20-10,40)	2010 (510-3220)	4,38 A	1005	8,85
7 + 7 + 12	2,05	2,05	3,20		7,30 (2,50-8,20)	1980 (460-2790)	3,69 A	990	8,70	1,3 + 1,3 + 1,8	2,45	2,45	4,00		8,90 (3,20-10,40)	2030 (510-3220)	4,38 A	1015	8,95
7 + 7 + 15	1,95	1,95	3,90		7,80 (2,60-8,20)	2330 (460-2830)	3,35 A	1165	10,30	1,3 + 1,3 + 2,3	2,30	2,30	4,60		9,20 (3,20-10,40)	2150 (510-3180)	4,28 A	1075	9,50
7 + 7 + 18	1,80	1,80	4,40		8,00 (2,80-8,30)	2460 (490-2820)	3,25 A	1230	10,80	1,2 + 1,2 + 2,4	2,10	2,10	5,20		9,40 (3,20-10,40)	2120 (510-3180)	4,43 A	1060	9,30
7 + 9 [1] + 9 [1]	2,10	2,65	2,65		7,40 (2,50-8,10)	2140 (460-2790)	3,46 A	1070	9,40	1,4 + 1,6 + 1,6	2,60	3,20	3,20		9,00 (3,20-10,40)	2090 (510-3190)	4,31 A	1045	9,20
7 + 9 [1] + 10 [2]	2,00	2,55	2,85		7,40 (2,50-8,10)	2140 (460-2790)	3,46 A	1070	9,40	1,3 + 1,6 + 1,7	2,45	3,10	3,45		9,00 (3,20-10,40)	2090 (510-3190)	4,31 A	1045	9,20
7 + 9 [1] + 12	1,95	2,45	3,20		7,60 (2,60-8,20)	2240 (460-2840)	3,39 A	1120	9,85	1,3 + 1,5 + 1,8	2,40	3,00	3,80		9,20 (3,20-10,40)	2110 (510-3180)	4,36 A	1055	9,30
7 + 9 [1] + 15	1,90	2,35	3,75		8,00 (2,70-8,20)	2510 (490-2800)	3,19 B	1255	11,00	1,2 + 1,5 + 2,2	2,20	2,75	4,45		9,40 (3,20-10,40)	2160 (510-3140)	4,35 A	1080	9,50
7 + 9 [1] + 18	1,70	2,10	4,20		8,00 (2,80-8,30)	2460 (490-2800)	3,25 A	1230	10,80	1,1 + 1,4 + 2,4	2,00	2,45	4,95		9,40 (3,50-10,40)	2080 (560-3150)	4,52 A	1040	9,15
7 + 10 [2] + 10 [2]	1,90	2,75	2,75		7,40 (2,50-8,10)	2140 (460-2790)	3,46 A	1070	9,40	1,2 + 1,6 + 1,6	2,40	3,30	3,30		9,00 (3,20-10,40)	2090 (510-3190)	4,31 A	1045	9,20
7 + 10 [2] + 12	1,90	2,65	3,05		7,60 (2,60-8,20)	2240 (460-2840)	3,39 A	1120	9,85	1,2 + 1,6 + 1,7	2,30	3,20	3,70		9,20 (3,20-10,40)	2110 (510-3180)	4,36 A	1055	9,30
7 + 10 [2] + 15	1,80	2,55	3,65		8,00 (2,70-8,20)	2510 (490-2800)	3,19 B	1255	11,00	1,2 + 1,6 + 2,1	2,15	3,00	4,25		9,40 (3,20-10,40)	2160 (510-3140)	4,35 A	1080	9,50
7 + 10 [2] + 18	1,60	2,30	4,10		8,00 (2,80-8,30)	2460 (490-2800)	3,25 A	1230	10,80	1,0 + 1,5 + 2,3	1,90	2,70	4,80		9,40 (3,50-10,40)	2080 (560-3150)	4,52 A	1040	9,15
7 + 12 + 12	1,90	3,00	3,00		7,90 (2,70-8,30)	2290 (460-2810)	3,45 A	1145	10,10	1,2 + 1,7 + 1,7	2,20	3,55	3,55		9,30 (3,20-10,50)	2130 (500-3180)	4,37 A	1065	9,40
7 + 12 + 15	1,70	2,80	3,50		8,00 (2,80-8,40)	2380 (490-2840)	3,36 A	1190	10,40	1,1 + 1,6 + 2,0	2,05	3,25	4,10		9,40 (3,20-10,50)	2150 (500-3140)	4,37 A	1075	9,50
7 + 12 + 18	1,55	2,50	3,95		8,00 (2,80-8,30)	2470 (490-2840)	3,24 A	1235	10,90	1,0 + 1,5 + 2,3	1,85	2,95	4,60		9,40 (3,70-10,50)	2170 (620-3140)	4,33 A	1085	9,55
7 + 15 + 15	1,60	3,20	3,20		8,00 (2,80-8,40)	2380 (490-2810)	3,36 A	1190	10,40	1,0 + 1,8 + 1,8	1,90	3,75	3,75		9,40 (3,60-10,50)	2110 (620-3110)	4,45 A	1055	9,30
7 + 15 + 18	1,45	2,90	3,65		8,00 (2,80-8,30)	2470 (490-2810)	3,24 A	1235	10,90	0,9 + 1,7 + 2,1	1,70	3,40	4,30		9,40 (3,90-10,50)	2120 (660-3110)	4,43 A	1060	9,30
7 + 18 + 18	1,30	3,35	3,35		8,00 (2,90-8,40)	2430 (490-2830)	3,29 A	1215	10,70	0,8 + 1,9 + 1,9	1,60	3,90	3,90		9,40 (4,10-10,50)	2170 (700-3120)	4,33 A	1085	9,55
9 [1] + 9 [1] + 9 [1]	2,60	2,60	2,60		7,80 (2,60-8,10)	2450 (460-2820)	3,18 B	1225	10,80	1,6 + 1,6 + 1,6	3,08	3,08	3,08		9,24 (3,20-10,40)	2170 (510-3160)	4,26 A	1085	9,55
9 [1] + 9 [1] + 10 [2]	2,50	2,50	2,80		7,80 (2,60-8,10)	2450 (460-2820)	3,18 B	1225	10,80	1,5 + 1,5 + 1,6	2,96	2,96	3,32		9,24 (3,20-10,40)	2170 (510-3160)	4,26 A	1085	9,55
9 [1] + 9 [1] + 12	2,45	2,45	3,10		8,00 (2,70-8,20)	2510 (490-2810)	3,19 B	1255	11,00	1,5 + 1,5 + 1,7	2,85	2,85	3,70		9,40 (3,20-10,40)	2190 (510-3150)	4,29 A	1095	9,65
9 [1] + 9 [1] + 15	2,20	2,20	3,60		8,00 (2,80-8,20)	2510 (490-2790)	3,19 B	1255	11,00	1,4 + 1,4 + 2,1	2,60	2,60	4,20		9,40 (3,30-10,40)	2140 (530-3130)	4,39 A	1070	9,40
9 [1] + 9 [1] + 18	2,00	2,00	4,00		8,00 (2,80-8,30)	2460 (490-2790)	3,25 A	1230	10,80	1,3 + 1,3 + 2,3	2,35	2,35	4,70		9,40 (3,80-10,40)	2100 (640-3120)	4,48 A	1050	9,20
9 [1] + 10 [2] + 10 [2]	2,40	2,70	2,70		7,80 (2,60-8,10)	2450 (460-2820)	3,18 B	1225	10,80	1,5 + 1,6 + 1,6	2,84	3,20	3,20		9,24 (3,20-10,40)	2170 (510-3160)	4,26 A	1085	9,55
9 [1] + 10 [2] + 12	2,35	2,65	3,00		8,00 (2,70-8,20)	2510 (490-2810)	3,19 B	1255	11,00	1,5 + 1,6 + 1,7	2,75	3,10	3,55		9,40 (3,20-10,40)	2190 (510-3150)	4,29 A	1095	9,65
9 [1] + 10 [2] + 15	2,15	2,40	3,45		8,00 (2,80-8,20)	2510 (490-2790)	3,19 B	1255	11,00	1,4 + 1,5 + 2,0	2,50	2,85	4,05		9,40 (3,30-10,40)	2140 (530-3130)	4,39 A	1070	9,40
9 [1] + 10 [2] + 18	1,95	2,15	3,90		8,00 (2,80-8,30)	2460 (490-2790)	3,25 A	1230	10,80	1,3 + 1,4 + 2,3	2,30	2,55	4,55		9,40 (3,80-10,40)	2100 (640-3120)	4,48 A	1050	9,20
9 [1] + 12 + 12	2,20	2,90	2,90		8,00 (2,70-8,40)	2380 (490-2850)	3,36 A	1190	10,40	1,4 + 1,7 + 1,7	2,60	3,40	3,40		9,40 (3,20-10,50)	2170 (500-3150)	4,33 A	1085	9,55
9 [1] + 12 + 15	2,05	2,65	3,30		8,00 (2,80-8,40)	2380 (490-2820)	3,36 A	1190	10,40	1,3 + 1,6 + 1,9	2,40	3,10	3,90		9,40 (3,50-10,50)	2130 (560-3120)	4,41 A	1065	9,40
9 [1] + 12 + 18	1,85	2,40	3,75		8,00 (2,80-8,40)	2340 (490-2830)	3,42 A	1170	10,30	1,2 + 1,5 + 2,2	2,20	2,80	4,40		9,40 (3,90-10,50)	2150 (660-3120)	4,37 A	1075	9,50
9 [1] + 15 + 15	1,90	3,05	3,05		8,00 (2,80-8,40)	2380 (490-2800)	3,36 A	1190	10,40	1,2 + 1,7 + 1,7	2,20	3,60	3,60		9,40 (3,80-10,50)	2060 (640-3080)	4,56 A	1030	9,05
9 [1] + 15 + 18	1,70	2,80	3,50		8,00 (2,80-8,40)	2340 (490-2800)	3,42 A	1170	10,30	1,1 + 1,6 + 2,0	2,05	3,25	4,10		9,40 (4,00-10,50)	2100 (680-3080)	4,48 A	1050	9,20
9 [1] + 18 + 18	1,60	3,20	3,20		8,00 (2,90-8,50)	2340 (520-2800)	3,42 A	1170	10,30	1,0 + 1,8 + 1,8	1,90	3,75	3,75		9,40 (4,20-10,50)	2140 (700-3080)	4,39 A	1070	9,40
10 [2] + 10 [2] + 10 [2]	2,60	2,60	2,60		7,80 (2,60-8,10)	2450 (460-2820)	3,18 B	1225	10,80	1,6 + 1,6 + 1,6	3,08	3,08	3,08		9,24 (3,20-10,40)	2170 (510-3160)	4,26 A	1085	9,55
10 [2] + 10 [2] + 12	2,55	2,55	2,90		8,00 (2,70-8,20)	2510 (490-2810)	3,19 B	1255	11,00	1,6 + 1,6 + 1,7	3,00	3,00	3,40		9,40 (3,20-10,40)	2190 (510-3150)	4,29 A	1095	9,65
10 [2] + 10 [2] + 15	2,35	2,35	3,30		8,00 (2,80-8,20)	2510 (490-2790)	3,19 B	1255	11,00	1,5 + 1,5 + 1,9	2,75	2,75	3,90		9,40 (3,30-10,40)	2140 (530-3130)	4,39 A	1070	9,40
10 [2] + 10 [2] + 18	2,10	2,10	3,80		8,00 (2,80-8,30)	2460 (490-2790)	3,25 A	1230	10,80	1,4 + 1,4 + 2,2	2,50	2,50	4,40		9,40 (3,80-10,40)	2100 (640-3120)	4,48 A	1050	9,20
10 [2] + 12 + 12	2,40	2,80	2,80		8,00 (2,70-8,40)	2380 (490-2850)	3,36 A	1190	10,40	1,5 + 1,6 + 1,6	2,90	3,25	3,25		9,40 (3,20-10,50)	2170 (500-3150)	4,33 A	1085	9,55
10 [2] + 12 + 15	2,25	2,55	3,20		8,00 (2,80-8,40)	2380 (490-2820)	3,36 A	1190	10,40	1,5 + 1,6 + 1,8	2,65	3,00	3,75		9,40 (3,50-10,50)	2130 (560-3120)	4,41 A	1065	9,40
10 [2] + 12 + 18	2,00	2,35	3,65		8,00 (2,80-8,40)	2340 (490-2830)	3,42 A	1170	10,30	1,3 + 1,5 + 2,1	2,40	2,75	4,25		9,40 (3,90-10,50)	2150 (660-3120)	4,37 A	1075	9,50
10 [2] + 15 + 15	2,10	2,95	2,95		8,00 (2,80-8,40)	2380 (490-2800)	3,36 A	1190	10,40	1,4 + 1,7 + 1,7	2,40	3,50	3,50		9,40 (3,80-10,50)	2060 (640-3080)	4,56 A	1030	9,05
10 [2] + 15 + 18	1,90	2,70	3,40		8,00 (2,80-8,40)	2340 (490-2800)	3,42 A	1170	10,30	1,2 + 1,6 + 1,9	2,20	3,20	4,00		9,40 (4,00-10,50)	2100 (680-3080)	4,48 A	1050	9,20
10 [2] + 18 + 18	1,70	3,15	3,15		8,00 (2,90-8,50)	2340 (520-2800)	3,42 A	1170	10,30	1,1 + 1,8 + 1,8	2,10	3,65	3,65		9,40 (4,20-10,50)	2140 (700-3080)	4,39 A	1070	9,40
12 + 12 + 12	2,66	2,66	2,66		7,98 (2,80-8,50)	2300 (490-2830)	3,47 A	1150	10,10	1,6 + 1,6 + 1,6	3,13	3,13	3,13		9,39 (3,30-10,50)	2160 (520-3180)	4,35 A	1080	9,50
12 + 12 + 15	2,45	2,45	3,10		8,00 (2,80-8,40)	2390 (490-2800)	3,35 A	1195	10,50	1,5 + 1,5 + 1,7	2,90	2,90	3,60		9,40 (3,70-10,50)	2140 (620-3150)	4,39 A	1070	9,40
12 + 12 + 18	2,25	2,25	3,50		8,00 (2,80-8,40)	2390 (490-2830)	3,35 A	1195	10,50	1,5 + 1,5 + 2,0	2,65	2,65	4,10		9,40 (4,00-10,50)	2130 (680-3120)	4,41 A	1065	9,40
12 + 15 + 15	2,30	2,85	2,85		8,00 (2,80-8,40)	2390 (490-2820)	3,35 A	1195	10,50	1,5 + 1,7 + 1,7	2,70	3,35	3,35		9,40 (3,90-10,50)	2120 (660-3120)	4,43 A	1060	9,30
12 + 15 + 18	2,10	2,60	3,30		8,00 (2,90-8,40)	2350 (490-2820)	3,40 A	1175	10,30	1,4 + 1,6 + 1,9	2,45	3,10	3,85		9,40 (4,10-10,50)	2100 (700-3100)	4,48 A	1050	9,20
12 + 18 + 18	1,90	3,05	3,05		8,00 (2,90-8,50)	2350 (520-2810)	3,40 A	1175	10,30	1,2 + 1,7 + 1,7	2,30	3,55	3,55		9,40 (4,20-10,50)	2060 (700-3080)	4,56 A	1030	9,05
15 + 15 + 15	2,66	2,66	2,66		7,98 (2,90-8,40)	2390 (490-2840)	3,34 A	1195	10,50	1,6 + 1,6 + 1,6	3,13	3,13	3,13		9,39 (4,00-10,50)	2100 (680-3080)	4,47 A	1050	9,20
15 + 15 + 18	2,45	2,45	3,10		8,00 (2,90-8,40)	2390 (520-2810)	3,35 A	1195	10,50	1,5 + 1,5 + 1,7	2,90	2,90	3,60		9,40 (4,20-10,50)	2080 (700-3080)	4,52 A	1040	9,15

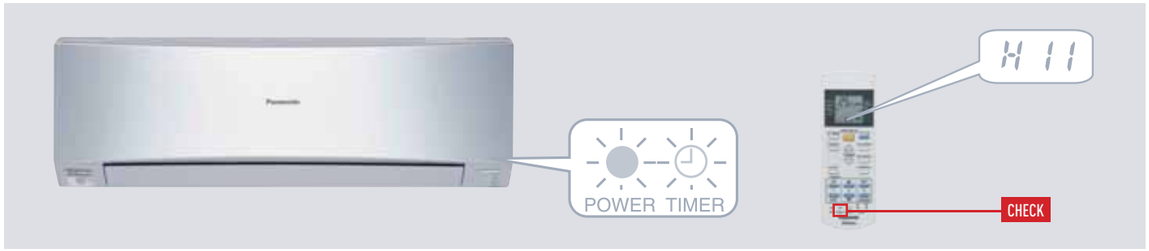
FREE MULTI 4X1 // OUTDOOR UNIT CU-4E27CBPG (CONT,)

Indoor unit	Cooling Capacity (kW)					Input Power (W)	EER	A,C,E,	Current	Moisture Removal	Heating Capacity (kW)					Input Power (W)	COP	A,C,E,	Current
capacity	Room A	Room B	Room C	Room D	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)	Volume (l/h)	Room A	Room B	Room C	Room D	Total (Min,-Max,)	Rating	W/W	kWh	230 V (A)
4 Room																			
7 + 7 + 7 + 7	2,00	2,00	2,00	2,00	8,00 (2,70-8,80)	2150 (490-2840)	3,72 A	1075	9,50	1,3 + 1,3 + 1,3 + 1,3	2,35	2,35	2,35	2,35	9,40 (3,20-10,50)	2080 (550-3140)	4,52 A	1040	9,15
7 + 7 + 7 + 9 [1]	1,90	1,90	1,90	2,30	8,00 (2,80-8,80)	2140 (490-2880)	3,74 A	1070	9,40	1,2 + 1,2 + 1,2 + 1,5	2,20	2,20	2,20	2,80	9,40 (3,20-10,50)	2060 (550-3120)	4,56 A	1030	9,05
7 + 7 + 7 + 10 [2]	1,80	1,80	1,80	2,60	8,00 (2,80-8,80)	2140 (490-2880)	3,74 A	1070	9,40	1,2 + 1,2 + 1,2 + 1,6	2,15	2,15	2,15	2,95	9,40 (3,20-10,50)	2060 (550-3120)	4,56 A	1030	9,05
7 + 7 + 7 + 12	1,75	1,75	1,75	2,75	8,00 (2,80-8,90)	2130 (490-2880)	3,76 A	1065	9,40	1,1 + 1,1 + 1,1 + 1,6	2,05	2,05	2,05	3,25	9,40 (3,40-10,50)	2120 (590-3180)	4,43 A	1060	9,30
7 + 7 + 7 + 15	1,60	1,60	1,60	3,20	8,00 (2,80-8,90)	2110 (490-2870)	3,79 A	1055	9,30	1,0 + 1,0 + 1,0 + 1,8	1,90	1,90	1,90	3,70	9,40 (3,80-10,50)	2090 (640-3140)	4,50 A	1045	9,20
7 + 7 + 7 + 18	1,45	1,45	1,45	3,65	8,00 (2,80-8,90)	2110 (490-2840)	3,79 A	1055	9,30	0,9 + 0,9 + 0,9 + 2,1	1,70	1,70	1,70	4,30	9,40 (4,00-10,50)	2120 (680-3110)	4,43 A	1060	9,30
7 + 7 + 9 [1] + 9 [1]	1,80	1,80	2,20	2,20	8,00 (2,80-8,80)	2130 (490-2870)	3,76 A	1065	9,40	1,2 + 1,2 + 1,4 + 1,4	2,10	2,10	2,60	2,60	9,40 (3,50-10,50)	2050 (610-3110)	4,59 A	1025	9,05
7 + 7 + 9 [1] + 10 [2]	1,70	1,70	2,15	2,45	8,00 (2,80-8,80)	2130 (490-2870)	3,76 A	1065	9,40	1,1 + 1,1 + 1,4 + 1,5	2,00	2,00	2,55	2,85	9,40 (3,50-10,50)	2050 (610-3110)	4,59 A	1025	9,05
7 + 7 + 9 [1] + 12	1,65	1,65	2,05	2,65	8,00 (2,80-8,90)	2120 (490-2870)	3,77 A	1060	9,30	1,1 + 1,1 + 1,3 + 1,6	1,95	1,95	2,40	3,10	9,40 (3,70-10,50)	2100 (620-3160)	4,48 A	1050	9,20
7 + 7 + 9 [1] + 15	1,50	1,50	1,90	3,10	8,00 (2,80-8,90)	2090 (490-2840)	3,83 A	1045	9,20	1,0 + 1,0 + 1,2 + 1,7	1,80	1,80	2,20	3,60	9,40 (3,90-10,50)	2070 (660-3110)	4,54 A	1035	9,10
7 + 7 + 9 [1] + 18	1,40	1,40	1,70	3,50	8,00 (2,90-8,90)	2110 (520-2880)	3,79 A	1055	9,30	0,9 + 0,9 + 1,1 + 2,0	1,65	1,65	2,00	4,10	9,40 (4,10-10,50)	2090 (700-3100)	4,50 A	1045	9,20
7 + 7 + 10 [2] + 10 [2]	1,65	1,65	2,35	2,35	8,00 (2,80-8,80)	2130 (490-2870)	3,76 A	1065	9,40	1,1 + 1,1 + 1,5 + 1,5	1,95	1,95	2,75	2,75	9,40 (3,50-10,50)	2050 (610-3110)	4,59 A	1025	9,05
7 + 7 + 10 [2] + 12	1,60	1,60	2,25	2,55	8,00 (2,80-8,90)	2120 (490-2870)	3,77 A	1060	9,30	1,0 + 1,0 + 1,5 + 1,6	1,90	1,90	2,60	3,00	9,40 (3,70-10,50)	2100 (620-3160)	4,48 A	1050	9,20
7 + 7 + 10 [2] + 15	1,50	1,50	2,05	2,95	8,00 (2,80-8,90)	2090 (490-2840)	3,83 A	1045	9,20	1,0 + 1,0 + 1,3 + 1,7	1,75	1,75	2,40	3,50	9,40 (3,90-10,50)	2070 (660-3110)	4,54 A	1035	9,10
7 + 7 + 10 [2] + 18	1,35	1,35	1,90	3,40	8,00 (2,90-8,90)	2110 (520-2880)	3,79 A	1055	9,30	0,9 + 0,9 + 1,2 + 1,9	1,60	1,60	2,20	4,00	9,40 (4,10-10,50)	2090 (700-3100)	4,50 A	1045	9,20
7 + 7 + 12 + 12	1,55	1,55	2,45	2,45	8,00 (2,80-8,90)	2090 (500-2870)	3,83 A	1045	9,20	1,0 + 1,0 + 1,5 + 1,5	1,80	1,80	2,90	2,90	9,40 (3,80-10,50)	2110 (640-3190)	4,45 A	1055	9,30
7 + 7 + 12 + 15	1,45	1,45	2,25	2,85	8,00 (2,80-8,90)

SELF DIAGNOSIS DESCRIPTION AND CHECK POINT TABLE

In the event of breakdown, proceed as follows to detect the error code.

1. Press "CHECK" button at the remote control continuously for more than five seconds to turn on diagnosis mode. "_ _" will be displayed at the remote control LCD.
2. By pressing the TIMER "▲" button once, the next error code (if any) will be displayed; press "▼" button once, previous error code will be displayed.
3. If error code displayed matches the error code saved in unit memory (abnormality detected) Indoor PCB will buzzer for 4 seconds to indicate the correct error code.
4. If "CHECK" button is pressed again or without any operation for 30 seconds, the diagnosis mode will turn off.
5. Turn ON the unit and reset the error code by pressing the AC reset.



ERROR CODES TABLE

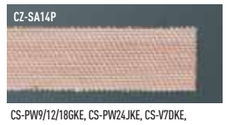
Warning: Electrical power must be disconnected when terminal protective cover is not in place to protect against electrocution.

Diagnosis Display	Abnormality / Protection Control	Diagnosis Method	Diagnosis Checkpoint
H11	Indoor/Outdoor abnormal communication	This trouble display appears when indoor/outdoor unit communication fails to be established after 30 or more seconds.	Measure the voltages of the indoor/outdoor unit communication cables, and check whether the voltage is being supplied properly to the outdoor unit or whether it is being returned from the outdoor unit to the indoor units.
H12	Indoor unit capacity unmatched	This trouble display appears when wrong in the total connection capacity and wrong connection in each capacity. The trouble is determined within 2 minutes after the power is turned on.	Check the total capacity of the units connected and check that the models are compatible for connection.
H14	Intake air temp. sensor	This trouble display appears when the intake air temperature has exceeded above 46ºC continuously for 2 minutes or dropped below -54ºC continuously for 5 seconds during operation.	This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (0L or ∞) or short-circuit is not found, defective contact of the connector is to blame.
H15	Outdoor compressor temperature sensor abnormality	—	Check the sensor, and if open-circuit (more than 500 k) or (short-circuit) (less than 6.5 k) is not found, defective contact of the connector is to blame.
H16	Outdoor Current Transformer	CU-2E: When a value of under 1.5A has been detected for the total current during operation beyond the set capacity, the compressor operates with its operating frequency controlled to a maximum of 38Hz for 3 minutes, and if it continues to operate at a total current of under 1.5A for another 3 minutes, its operation stops. CU-3E/4E: When the total current has dropped below the set current level continuously for 20 seconds during operation beyond the set capacity, operation is stopped. Three minutes later, operation is started up again, and when the trouble occurs on 4 successive occasions, the trouble display appears (the timer lamp blinks).	1. Check the refrigerant cycle: Gas may be leaking (the amount of refrigerant is extremely low). 2. Check the control PCB: Check for a broken wire (open circuit) in the current transformer. (If an open circuit is found, replace the control PCB) In the case of a scroll compressor (DC motor), H16 is detected only when the regular compressor is operating.
H19	Indoor fan motor mechanism lock	· High-voltage PWM: When a state in which the fan motor speed is not synchronized with the control signal has been detected on 7 successive occasions. · Low-voltage PAM: When the fan lock detection signal has been detected on 7 successive occasions or it has been detected continuously for 25 seconds or when a state in which the fan motor speed is not synchronized with the control signal has been detected on 7 successive occasions: The trouble display appears (the timer lamp blinks).	1. Check the nature of the fan lockup trouble. 2. Check for disconnections of the fan motor connectors and for defects in contact, in the fan motor and in the control PCB.
H23	Indoor heat exchanger temp. sensor	This trouble display appears when a temperature of under approximately -40ºC or above approximately 80ºC has been detected by the heat exchanger temperature sensor continuously for 5 seconds. (This trouble is not detected during de-icing.)	This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if (open-circuit) (0L or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame.
H26	Ionizer Abnormality	—	1. Measure the voltages of the indoor unit communication cables, and check whether the voltage is being supplied properly. 2. Check the ionizer needle and grounding plate is dust free.
H27	Outdoor air temp. sensor	This trouble display appears when a temperature of under approximately -40ºC or above approximately 150ºC has been detected by the outside air temperature sensor for 2 to 5 seconds. (This trouble is not detected during de-icing.)	This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (0L or ∞) or short-circuit isnot found, defective contact of the connector or a defective control PCB is to blame.
H28	Outdoor heat exchanger temp. sensor 1	This trouble display appears when a temperature of under approximately -60ºC or above approximately 110ºC has been detected by the heat exchanger temperature sensor for 2 to 5 seconds. (This trouble is not detected during de-icing.)	This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (0L or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame.
H30	Outdoor discharge pipe temp. sensor	CU-2E: This trouble display appears when a temperature of under approximately -16ºC or above approximately 200ºC has been detected by the outlet temperature sensor for 2 to 5 seconds. CU-3E/4E: Disconnected discharge sensor · When the condensation temperature is higher than the discharge temperature + (plus) 6ºC, a sensor disconnection is detected, operation stops, and the trouble display appears (the timer lamp blinks).	This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (0L or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame.
H32	Outdoor heat exchanger temp. sensor 2 (discharge pipe temp.)	This trouble display appears when a temperature of under approximately -60ºC or over approximately 110ºC has been detected continuously for 2 to 5 seconds by the outlet temperature sensor of the heat exchanger.	This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (0L or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame.
H33	Indoor / Outdoor wrong connection	Indoor / Outdoor different model junction, 100V charge into 200V outdoor unit.	Check whether the voltage is being supplied properly to the outdoor unit or whether it is being returned from the outdoor unit to the indoor units.
H34	Outdoor heat sink temp. sensor	This trouble display appears when a temperature of under -43ºC or above 80ºC has been detected by the outdoor unit radiator fin sensor continuously for 2 seconds.	This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (0L or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame.
H36	Abnormal gas pipe temp. sensor	This trouble display appears when a temperature of under approximately -45ºC or above approximately 149ºC has been detected by the outdoor unit gas side pipe temperature sensor continuously for 2 to 5 seconds.	This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (0L or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame.
H37	Outdoor liquid pipe temp. sensor	This trouble display appears when a temperature of under -45ºC or above 149ºC has been detected by the outdoor unit liquid side pipe temperature sensor continuously for 2 seconds.	This trouble display appears when a temperature which is impossibly high or low from a normal standpoint has been detected. Check the sensor, and if open-circuiting (0L or ∞) or short-circuit is not found, defective contact of the connector or a defective control PCB is to blame.
H38	Indoor / Outdoor mismatch (brand code)	—	—
H39	Abnormal indoor operating unit or standBy units	This display appears in rooms other than one in which indoor freezing trouble has occurred when the pipes have been connected incorrectly, when an outdoor expansion valve is defective or when an expansion valve connector has become disconnected.	—
H41	Abnormal wiring or piping connection	CU-2E only This display appears when this kind of trouble is detected 3 minutes after a forced cooling operation was conducted for one room during the initial operation after the power was turned on. It appears when: · The indoor unit pipe temperature in a room without the capacity supply available at an outside air temperature above 5ºC has dropped by more than 20ºC to 5ºC or lower 3 minutes after the compressor started up. · The outdoor unit gas pipe temperature in a room without the capacity supply available has dropped by more than 5ºC to 5ºC or lower 3 minutes after the compressor started up.	—
H50	Ventilation failure	This display appears when ventilation motor is lock.	1. Check the voltage drop at pin 1 & 2 of CNVENT to have 14Vdc. 2. Check the ventilation hose condition from ventilation opening until tip cover. 3. Check air fl ow from tip cover by hand.
H51	Vacuum Nozzle Failure	This display appears when the vacuum nozzle stop.	This trouble display appears when suction nozzle stop at centre of the Filter Cleaning device: 1. Check the filter setting position. 2. Check the nozzle drive stepper motor running condition. This trouble display appears when suction nozzle stop at left side of Filter Cleaning device: 1. Check vacuum nozzle position. 2. Check the left limit switch switching function by multitester. This trouble display appears when suction nozzle stop at left side of Filter Cleaning Device: 1. Check the Right Limit Switch switching function by multitester.
H52	Limit Switch Failure	This display appears when both Limit Switch (left & right) detected short circuit.	1. Unplug the CNSIDESW connector and check Pin 1-2 and Pin 3-4 condition on PCB. 2. Check wiring condition at limit switch (left & right). 3. Check switching function of limit switch (left & right).
H97	Outdoor fan motor mechanism lock	CU-2E: When trouble, which is defi ned as a state in which the fan motor speed is not synchronized with the control signal has been detected on 5 successive occasions, has occurred for the third time in a 60-minute period and twice during a 30-minute period, the trouble display appears, and operation stops. CU-3E/4E: When the fan motor speed detected when its maximum output is demanded is below 30 rpm continuously for 15 seconds, the fan motor stops for 3 minutes and then restarted. When this happens on 16 occasions (the trouble display is cleared when the value is normal for 5 minutes), the H97 diagnostic symbol is stored in the memory, and the fan motor stops.	1. Check the nature of the fan lockup trouble. 2. Check for disconnections of the fan motor connectors and for defects in contact, in the fan motor and in the control PCB.
H98	Indoor high pressure protection	The restriction on the compressor frequency is started when the temperature of the indoor unit heat exchanger source is between 50ºC and 52ºC, the compressor stops at a temperature from 62ºC to 65ºC, it is restarted 3 minutes later at below 62ºC to 65ºC, and the restriction on the compressor frequency is released at a temperature between 48ºC and 50ºC. (No trouble display appears.)	1. Check the indoor unit heat exchanger temperature sensor (check for changes in its characteristics and check its resistance): Symptoms include no hot start when operation is started, a failure of the thermostat to turn on (no outdoor unit operation). And frequent repetition of stopping and startup. 2. Check also for short circuits indoors and clogging of the air fi lters.
H99	Indoor operating unit freezing	The restriction on the compressor frequency is started when the indoor unit heat exchanger temperature is between 8ºC and 12ºC. Operation stops if a temperature below 0ºC continues for 6 minutes. Three minutes later, operation is started up at a temperature from 3ºC to 8ºC. The restriction on the compressor frequency is released at a temperature between 13ºC and 14ºC.	1. A cooling or dry mode operation conducted at a low outside air temperature is mainly to blame: this is not indicative of any malfunctioning. If the outside air temperature rises during automatic operation in the winter months, the dry mode operation is selected. The H99 diagnostic display also appears at such a time. 2. Check the refrigerating cycle: Gas may be leaking (the amount of refrigerant is low) or a pipe may be broken, etc. 3. Check also for short circuits indoors and clogging of the air fi lters.
F11	4-way valve switching failure	CU-2E: When the indoor unit heat exchanger temperature is under -5ºC during a warming operation or above 45ºC during a cooling or dry mode operation four minutes after the compressor has started up, the F11 diagnostic symbol is stored in the memory, and operation stops. 3 minutes later, operation is restarted. This trouble display appears when this happens on 4 occasions in a 30 minutes period. CU-3E/4E: When a difference of 0ºC to 5ºC has been detected between the outdoor unit heat exchanger temperature and liquid side pipe temperature on 5 occasions, the trouble display appears.	1. Check the 4-way valve coil: Check that no power is supplied to the coil during cooling and dry mode operations, and that power is supplied during heating operations. Inspect the coil for broken wires (open circuits). 2. If the coil is troublefree, the switching action of the 4-way valve may be defective.
F17	Indoor standBy units freezing	CU-2E: After the operation of one indoor unit stops continuously for 5 minutes. The hole operation stops when the stopping indoor unit pipe temperature is under -5ºC continuously for 1 minute or under 0ºC continuously for 5 minutes, and operation restarts after 3 minutes. This trouble display appears if that trouble happens on 3 occasions in a 30 minutes period. CU-3E/4E: When the difference of an intake temperature (room temperature sensor) and the indoor unit heat exchanger temperature (piping sensor) is higher than 10ºC or an indoor unit heat exchanger temperature of below -1ºC has been detected continuously for 5 minutes, operation stops. Three minutes later, it is started up, and the trouble display appears when this has occurred on 3 consecutive occasions.	1. Check the refrigerating cycle: Expansion valve leakage. 2. Check the indoor unit pipe temperature sensor (check for changes in its characteristics and check its resistance).
F90	PFC circuit protection (CU-2E) Main circuit low voltage (CU-3E/4E)	CU-2E: When the reputation of the compressor is not synchronized with the control signal, the F93 diagnostic display is stored in the memory, and operation stops. 3 minutes later, operation is restarted. This trouble display appears when this happens on 4 occasions in a 20 minutes period. CU-3E/4E: When a state in which the rotation of the compressor is not synchronized with the control signal has been detected on 8 successive occasions, operation stops, and the trouble display appears.	1. To check whether the 2-way or 3 -way valve has been left open by mistake, operation is performed for one to several minutes after the compressor has started up, F93 is stopped in the memory as the symptom, and operation stops. 2. Check the Inverter circuit (for open circuits) in the control PCB: Check the IPM base current (6 locations) within 3 minutes after the power has been turned back on. As the symptom, F93 is stored in the memory 30 seconds after the compressor has started up, and operation stops. The trouble display appears after 4 restarts. 3. Check for broken wires (open circuits) in the compressor winding: Approximately 1 ohm under normal conditions for each phase (same symptom as in 2.)
F91	Refrigeration cycle abnormality	CU-2E: When the rotation speed of the compressor exceeds the setting frequency and the total current is 1.5A or higher to 1.9A or lower continuously for 5 minutes, operation stops if the indoor unit heat exchanger temperature is higher than 20ºC during cooling or dry operation or if it is under 25ºC during heating. Three minutes later, it is restarted, and if the trouble occurs on 2 consecutive occasions in a 20 minutes period, the trouble display appears. CU-3E/4E: When the compressor frequency is above 55 Hz and the current drops below the prescribed level continuously for 7 minutes, operation stops, and it is restarted 3 minutes later. When the compressor discharge temperature has exceeded the setting and the expansion valve has remained fully open for 80 seconds, operation stops, and it is restarted 3 minutes later. When the stopping described above has occurred on 4 occasions, operation stops, and the trouble display appear.	Check the refrigerating cycle: Gas may be leaking (more than onehalf of the volume of the gas has gone). The diagnostic displays resulting from a gas leak generally change in the following sequence depending on the extent of the gas leak: H99 > F97 > F91 > H16. The range of this trouble (F91) is limited. (Compressor protection at the start of the season).
F93	Compressor abnormal revolution	CU-2E: When the reputation of the compressor is not synchronized with the control signal, the F93 diagnostic display is stored in the memory, and operation stops. 3 minutes later, operation is restarted. This trouble display appears when this happens on 4 occasions in a 20 minutes period. CU-3E/4E: When a state in which the rotation of the compressor is not synchronized with the control signal has been detected on 8 successive occasions, operation stops, and the trouble display appears.	1. To check whether the 2-way or 3 -way valve has been left open by mistake, operation is performed for one to several minutes after the compressor has started up, F93 is stopped in the memory as the symptom, and operation stops. 2. Check the Inverter circuit (for open circuits) in the control PCB: Check the IPM base current (6 locations) within 3 minutes after the power has been turned back on. As the symptom, F93 is stored in the memory 30 seconds after the compressor has started up, and operation stops. The trouble display appears after 4 restarts. 3. Check for broken wires (open circuits) in the compressor winding: Approximately 1 ohm under normal conditions for each phase (same symptom as in 2.)
F95	Outdoor high pressure protection	CU-2E only: When the temperature of the outdoor unit heat exchanger temperature sensor exceeds 63ºC, the F95 diagnostic symbol is stored in the memory, and operation stops. 3 minutes later, operation is restarted at a temperature below 56ºC. This trouble display appears when this happens on 4 occasions in a 20-minutes period.	1. Check the outdoor unit heat exchanger temperature sensor (check for changes in its characteristics and check its resistance). 2. Check whether something is interfering with the dissipation of the heat outdoors.
F96	Power transistor module or compressor overheating (CU-2E) Compressor high discharge temperature (CU-3E/4E)	CU-2E: Heating is detected inside the IPM which shuts itself off, the F96 diagnostic symbol is stored in the memory, and operation stops. 3 minutes later, operation is restarted. The trouble display appears when this happens on 4 occasions in a 30-minutes period. CU-3E/4E: When this trouble is detected from the electrical parts radiation fi n temperature sensor and OLP output during operation, operation stops, and it is restarted 3 minutes later. If the trouble occurs on 4 occasions, operation stops, and the trouble display appears.	1. Something may be interfering with the dissipation of the heat outdoors or the outdoor unit fan may be defective. (The outdoor unit fan is not running.). 2. Defective IPM (outdoor unit control PCB). 3. Gas leaks. 2-way or 3-way valve is not opened.
F97	Compressor high discharge temperature	When the temperature of the compressor temperature sensor exceeds 112 to 120ºC, the F97 diagnostic symbol is stored in the memory, and operation steps. Two minutes later, operation is restarted at a temperature below 107 to 110ºC. CU-2E: The trouble display appears and operation stops when this happens on 4 occasions in a 20 minutes period. CU-3E/4E: This trouble display appears and operation stops when this happens on 6 occasions (it is cleared when the operation is normal for 20 minutes).	1. Check the refrigerating cycle: Gas may be leaking (the amount of refrigerant is low). The stopping of the outdoor unit from time to time is a symptom of this trouble. 2. When operation steps with this trouble display appearing, check the compressor temperature sensor (check for changes in its characteristics and check its resistance). 3. Something may be interfering with the dissipation of the heat outdoors or the outdoor unit fan may be defective. (The fan will not run because of an open circuit.) (The protection function may be activated by an overload, and the F97 trouble display will remain stored in the memory.).
F98	Total running current protection	CU-2E: When the total current exceeds the setting, the F98 diagnostic display is stored in the memory, and operation stops. 3 minutes later, operation is restarted. The trouble display appears and operation stops when this happens on 3 occasions in a 20-minutes period. CU-3E/4E: When the total current exceeds the setting (17A to 20A), frequency control is started, and if it then exceeds the setting, operation stops, and the trouble display appears.	1. Check the AC voltage at the outdoor unit terminal board during operation: The voltage drop must be within 5% of the voltage when operation has stopped (± 110% of rated voltage even during operation). If the voltage drop exceeds 5% or if the voltage changes suddenly, inspect whether the power supply cord and indoor/outdoor unit connection cables are too long or too small in diameter, etc. 2. Check whether something is interfering with the dissipation of the heat outdoors (during cooling operations): Normally, the capacity is limited by the current so that the outdoor unit don't stop, and the diagnostic display does not appear.
F99	DC peak detection	CU-2E: If the current level exceeds 22.5A after startup, the compressor stops, and it is restarted 3 minutes later. When this occurs on 7 consecutive occasions, operation stops, and the trouble display appears. CU-3E/4E: When "Output current trouble", which occurs when the prescribed current level is exceeded, has occurred on 16 consecutive occasions, operation stops, and the trouble display appears.	1. Check whether the compressor is defective (locked up or shorted winding). Check the outdoor unit control PCB.

OPTIONAL ACCESSORIES

REPLACEMENT ANTI-ALLERGEN FILTER

CS-E9/12/15/18/21HKEA



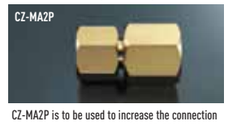
CS-PW9/12/18GKE, CS-PW24JKE, CS-V7DKE, CS-V9DKE, CS-V12DKE, CS-V18DKE, CS-V24DKE, CS-V28EKE, CS-E15DTEW, CS-E18DTEW, CS-E21DTES

CS-RE9/12/18/24JKE-1

PIPE REDUCER (for Multi)

CZ-MA1P is to be used to reduce the connection size on the indoor unit to 3/8". CS-E15/18/MKEW, CS-E15/18DTEW, CS-E15/18HB4EA, CS-E15/18JD3EA, CS-E18GFEW, CS-E18GFEW, CS-XE15/18MKEW

PIPE EXPANDER (for Multi)



CZ-MA2P is to be used to increase the connection size on the outdoor unit to 1/2". CS-E21MKEW, CS-XE21MKEW, CS-E21JB4EA

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